

SEQUENCE LISTING

<110> Henderson, Robert A.
 Wang, Tongtong
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 Johnson, Jeffrey C.
 Retter, Marc W.
 Marnerakis, Margarita
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 Bangur, Chaitanya S.
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<120> COMPOSITIONS AND METHODS FOR THE THERAPY
 AND DIAGNOSIS OF LUNG CANCER

<130> 210121.478C18

<140> US

<141> 2001-10-29

<160> 2004

<170> FastSEQ for Windows Version 4.0

<210> 1

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<212> DNA

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<213> Homo sapiens

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T00754-103001

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 <213> Homo sapiens

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 agatggtaag acctctgaga ccaaaatttt gtcccatctc taccacctca caactgctta 240
 cagaatggat catgtccccc ttatgttgag gtgaccactt aattgctttc ctgcctcctt 300
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 aggacaaatt aaaagggggg aagagcctta toatgatgag gagtcttgtt ttgacatctt 360
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 <212> DNA
 <213> Homo sapiens

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<210> 10
 <211> 449
 <212> DNA
 <213> Homo sapiens

<400> 10
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 <212> DNA
 <213> Homo sapiens

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 cgaaataaat accagactgt ccaactcctca gcctaaggtc cttctcaagt cctgcacact 420
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 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 12
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<400> 13

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<211> 540

<212> DNA

<213> Homo sapiens

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<210> 15

<211> 421

<212> DNA

<213> Homo sapiens

<400> 15

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<210> 16

<211> 236

<212> DNA

<213> Homo sapiens

<400> 16

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gaagtgggtcc attcctttgt ctgaaggagc gacaggagca tctacgggtg agaagacaga 180
aagtttggct tcgtcgatgt cttgctgtgt gaattttcca gacttagccc agtcga 236

<210> 17
<211> 424
<212> DNA
<213> Homo sapiens

<400> 17
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atgg 424

<210> 18
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<212> DNA
<213> Homo sapiens

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cacaagagac ttaaaggaca ggaggaggag atgg 154

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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ctgggttcgt cccagtgag accggaggat gatcccccaa ggactgcgca gcatcagctc 180
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 <213> Homo sapiens

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 tggaagaacg gtctcagaac tgtttggttc aattgg 396

<210> 22
 <211> 277
 <212> DNA
 <213> Homo sapiens

<400> 22
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 tgggagttca tgcttcggta gagacggcgg tactgta 277

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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

<400> 24
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 aagactgaca cagataaaaa ggaattagac ccaaactcagt gaacaggaat gaaatagagg 180


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tccttggttg ctttgcagac ctcccttgag aggattcctt ctggatggag atttctttgt 120
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ggagaagaaa aagcaaaatt cttttgttgc tgaggctatg ttgctcatgg ctactatcct 240
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ccaaaagaaa gaatctgaaa agaggaatgt gacagtacag cctgatgacc ccatttcctt 480
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<210> 29
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<212> DNA
<213> Homo sapiens

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ttgatctccc acacaaaag agaaaataat atttatatgg aagtaatttt attttagtgt 180
ttgtgattta ttgtggagag caggbgttta aaaatttttag aatttctttt taacaaaatc 240
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tctacaactt caaagatatt tgcaaaaata atacaactgt tgaagttcaa atgttatgga 360
aagaaacatt agaagtatga aaagtgttac aaaaacatgt ttctttttat tctcttgat 420
atatatctat atatttagga aaatacatat atgtatgtgt atgtatatat atgtatgaaa 480
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<210> 30
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<212> DNA
<213> Homo sapiens

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<400> 30
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gggttctata actgcatccc ccacacatct ttcaccaoca cccatacat accagctctc 180
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<210> 31
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<212> DNA
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tcgtcagcaa gttgtggccc actttctttg agagaccctt tgtgaggaaa gcctttgaga 180
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<210> 32
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<400> 32

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 ggcttggggg caagaaacag ccagcaagag ttaggggct tagggcactg ggctgttggt 180
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<210> 33

<211> 319

<212> DNA

<213> Homo sapiens

<400> 33

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<210> 34

<211> 340

<212> DNA

<213> Homo sapiens

<400> 34

tacagattta attcatgtta ttaactccct gccttttaacc tctccctcc tccrttggca 60
 caactgccag atggatgtgg ctggaagtca gaggacattc tcgtgggttc gtgggcctag 120
 ggtacaaatg acctcagcgt gacagcaaac aggacagaga agaccaggct cttactcagg 180
 aatccaccag ccaggagaat gacaatgttg aacaccggaa cctgatgat atctgtcaca 240
 tttgtaaggt tgatttcaga gtcaggagtg gagacatcgg cagttgactt ggggtggagct 300
 tgggtcacag ttctggggct ggtatagagt gggcacaagg 340

<210> 35

<211> 170

<212> DNA

<213> Homo sapiens

<400> 35

acatgggtcc ttcactcctc gctgagatgt tgcggcagcc ttttcttcca atgcggttgt 60
 ggcaggagaa tccacgatg taatgttttc acctttttcc ctgaggggtgc tttctgagga 120
 accagycctt aagaggtggg gtcttgatt cctgaccag gcgtccggca 170

<210> 36

<211> 475

<212> DNA

<213> Homo sapiens

<400> 36

ctgttttttg acttaattaa ccattgcaag tggaaaccaa gaaataattg tagcataact 60
 ctctctattg kcatgttgct tctttctgca aatatatctt agaagttaga ctttaaaccct 120
 ttgatctccc acaccaaag agaaaataat atttatatgg aagtaatttt attttagtgt 180
 ttgtgattta ttgtggagag cagggtgttta aaaatttttag aatttcttta acaaaattct 240
 aaagagaaaa taaaaagaa atcacagtat ttacagagat aacagaatgg cttagccatg 300
 caaaacaaat aactttggtt tttccctttt tactttggtt taaatgttga ccaagattca 360
 attttttttt ctgccaaata aaacttcaat aaaagtttag aggcacaaata acgtattttc 420

tttttttccc ataatatattt atacagcatc gagtctaaga atattttatg cattt 475

<210> 37

<211> 246

<212> DNA

<213> Homo sapiens

<400> 37

ccttgagctt gggccgggca ctgaggcgcc ccacatatgc tgagagcagg gggaacgcat 60
ccaggcagcc aggggctagg acctcatgga tcagcagcaa gtccagcagg ttgtagtcat 120
cgaaggagat ctggctctccc acaatgaagg tcttgccctcc ctggttcttg gacagcaggg 180
tctcaaaagg cttcagttgc ccgggcagtg ccttcacata gtcctcctg cccacctcat 240
agttgg 246

<210> 38

<211> 512

<212> DNA

<213> Homo sapiens

<400> 38

gctggaagtg aaatgcagat cagacccatt gtgatgtcac agaaagatgg ggacaggcca 60
aagaaaaaag tgactttcaa ctcttcttcc atcattttta tcatcaccag tgatgaatca 120
ctgtcagttg acgacagcga caaaaccaat gggtccaaag ttgatgtaat ccaagttcgt 180
cctttgtagg aatgaagaat ggcaacgaaa gatggggcct taaattggat gccacttttg 240
gactttcatc ataagaagtg totggaatac ccgttctatg taatatcaac agaaccttgt 300
ggtccagcag gaaatccgaa ttgcccataat gctcttgggc ctcaggaaga ggttgaacaa 360
aaacaaattc ttttaattca acgggtgctt tacataatga aaaaaccact tgtggcacac 420
gatgggcac taacatcatc atcttctaat gtgttgaggaga ttttcatttc aaatatattt 480
tttaaattac tctattttcc aaaacacgta at 512

<210> 39

<211> 370

<212> DNA

<213> Homo sapiens

<400> 39

ttttatgaac aagatataag gatcaaaaaa aagggtgttg atatgttttt ccaagcagag 60
atgtactcga ctctgtccta tttagccttc ccatacctga cttctaata cttttccttg 120
tgccctycca tctccctaac ccccccctac agggatgcct cctcccaagg ctccagaaac 180
tctgaccctc gcaactgctg agggagccca tgaattgctg gtcaatatcg tcatcctct 240
akactccatc ctgctgtgct ttcttctctac aagagctaga gaggcactga ctgataaata 300
cctgtcacct gcccttttcc cagaggggtga aactccaccc actccactg cagaaatgaa 360
tcttaaattg 370

<210> 40

<211> 204

<212> DNA

<213> Homo sapiens

<400> 40

cctgagggtt ttccctttaa attttcattg agttgtccat ctccagcata tagggcttca 60
ggagcagagc agacctgtt tttagtgggt ccattgggata aaatgggatt ggaggagcta 120
gaagaattca ggtctgtgct caatctgccg gtcttctctga aatatcgaaa atacaccagg 180
gctgctatat cagagccacc ctgg 204

<210> 41
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 41
 caggcagcaa ttcgtaaaga attaaatgag tacaaaagta atgaaatgga ggtacatgca 60
 tcaagcaagc acttgacaag attccacagg ccatagagat tttcttctga gaagaatttg 120
 tgtttaattt tttgatacca aactgaaca ttcatacagg aactttcctg aagttcagct 180
 caagactacc ctacctgctg tgtttgtgag aagagtagga tcacacacac aggtgcaatc 240
 ttgaccacac ttacctgcaa gaggagtaac cagaggacac acttccttcc ttctttggtg 300
 tctgaggagt gtgaactgtt ggggtcagtt aagacccaac ataactctat cagaagaaaa 360
 ctgttgtttg cctttcaacc ttgttttaca gttctgcagt gtagtgaggg acgggcaacg 420
 tgcattgtgca ggctcaccac tcccagg 447

<210> 42
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 42
 ctgggtttgt aaaaacagtc tctttattct actgtgctga aacctcacc aatatagaaa 60
 attagattct cattgcactg aactatattt atatgcctaa gtatgtagaa gtaaaattat 120
 ataccccaaa aggattttat cttgtttgat atattaaatg ttatttctgc atatagggtc 180
 ttttatggag aaactgatga tgataagctt aatactcact tgttttagcag catctgaatg 240
 cacaaatgct ttatatatct cttctgcttt acagggcaaa agatcagact ctgttttctt 300
 atagtcttca caagccagcc agaactcaat attctcctca ctgaattcag actttaggaa 360
 acttccaaag acattttgac cagtttggtt ggcaagaagt ttttccagag attgagacca 420
 ttgcattact tcagcagcag aaagtacatc cttggacttg gaagatttca ttccagattc 480
 cagatgtggg atcataga 498

<210> 43
 <211> 312
 <212> DNA
 <213> Homo sapiens

<400> 43
 caggaaggcg gccagaatg tgagtgcaaa gattggttcc tgagagcccc gagaagaaaa 60
 ttcattgacag tgtctgggct gccaaagaag cagtgcctct gtgatcattt caagggaat 120
 gtgaagaaaa caagacacca aaggcaccac agaaagccaa acaagcattc cagagcctgc 180
 cagcaatttc tcaaacaatg tcagctaaga agctttgctc tgcctttgta ggagctctga 240
 gcgccactc ttccaattaa acattctcag ccaagaagac agtgagcaca cctaccagac 300
 actcttcttc tc 312

<210> 44
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 44
 ctaacacatt tactctccac tattcgtact ctggtagcca tgtaaacccc atcagagatt 60
 ccttctcaag ccatgtctca gagctgagag gcatcccagc aagttttgca gctcacagtt 120
 ttttccgtaa attacttatt ctataaaatt ggagtaggcc ataaactttg gagggcccta 180

gaccaatttt ttggattatt ttctgtcttc tatlattccg ctgatcttag atattctctg 240
 cattaatat taaatatcac ttctaggtcg aaaaatcccc ctaaaaatat ttctagctca 300
 gatttttcct ccaaattctg caatagaaga tcacaatgtg aactctgcat ctccatgtta 360
 aagtctaag gacattcaca cttagcatgt ctcaaagaaa tctcatgtaa accatgg 417

<210> 45
 <211> 494
 <212> DNA
 <213> Homo sapiens

<400> 45
 cgcgtgtctg tggatgtgt acacgtgcat gttctgcatg tctgtaggtc acacatgctt 60
 tgggtgcatgt acacgtgtgt gtgtgtatgc gtgtaggagc tcacacttgt gtacacgttt 120
 gtgtgcatgc atgtgtgcag gagcttgac gtttgtggtg ggtacatgta catatgtgag 180
 tgatcctgtg tgcaagcccc catgtggaca tggctatgag tgagcgtgga gccaaaagcc 240
 aggtaacacg catgcagcag gccactgtg cgtgtctgag acggtctgtg gcagggactg 300
 ggtgtgaatc atgcagcagg cccactgtgc gtgtctgaga cggctctgtg cagggactgg 360
 gtgtgaatca gtgaccgtgt ctctgaccaa catgtctaat taaaaattga taatttatta 420
 acctgtgcag caacaaataa gatttttcaa aactcaacaa agtgctcaa gttgacatta 480
 cttgcttcaa agtt 494

<210> 46
 <211> 516
 <212> DNA
 <213> Homo sapiens

<400> 46
 ccagtccaac ctgctcctca ttattgtata aatgagcaga atctatatgg cggaacccag 60
 cttctattgc taattttgtg acctccaaag ctttacttct cggaacctcc tcctttggcc 120
 gtcatttgat cattcaactc tttgtcagtg gcaactcccg ctatttttgt gtgttggttt 180
 gttactacac agtgagcaca aacatggtgg tccaatacag aggtctctcc tgtcagggtg 240
 caaccagaaa gttcatctaa cactgtgata tttgcatact tcttgaacag ttgttggtg 300
 aagattcatt tgatgaatcg atttttcaaa agagatgatt cttggttctt ccgagcgctc 360
 agctctcccg ccgagcttct ttgagacgtc ctcagggtgc ctttgacgat gcgtcctcca 420
 ctttcacaca ctctagcatt ccttcaactg ggtcttcaatt gcccacatt gggcagccag 480
 gaatgttggg gtgatcagac acaacaccag gtcatg 516

<210> 47
 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 47
 ccaattcaga gtggcattct gcattttctgt ggtttccaag tcttagaacc tcaactgaca 60
 tatagcattg ggcacactcc agcagacgcc cgaattcaaa tcttggaagg atggaagaaa 120
 cgcctggaga atattttggga tgagacacca ctgtattttg ctccaagcag cctctttgac 180
 ctaaaacttc aggaggatt cttaatgaaa aaagaggtac aggatgagga gaaaaacaag 240
 aaattttggcc tttctgtggg ccactacttg ggcaagtcca tccaactga caaccagatc 300
 aaagctagaa aatgagattc cttagcctgg atttctctct aacatgttat caaatctggg 360
 tatctttcca ggcttccctg acttgcttta gtttttaaga tttgtgtttt tctttttcca 420
 caaggaataa atgagaggga atcgaksaaa aaaaaaaaaa 459

<210> 48
 <211> 430

<212> DNA
<213> Homo sapiens

<400> 48

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cctatatattca gccacagcct ctgggagtggt tgctgataat cggagcttgg aattaccct 60
tcgtttctcac cattcagcca ctgataggag ccacgctgc aggaaatgct gtgattataa 120
agccttctga actgagtga aatacagcca agatcttggc aaagcttctc cctcagtatt 180
tagaccagga tctctatat tttattaatg gtggtgttga ggaaaccacg gagctcctga 240
agcagcgatt tgaccacatt ttctatacgg gaaacactgc ggttggcaaa attgtcatgg 300
aagctgctgc caagcatctg acccctgtga ctcttgaact gggagggaaa agtccatgtt 360
atattgataa agattgtgac ctggacattg tttgcagacg cataacctgg ggaaaataca 420
tgaattgtgg                                     430
```

<210> 49

<211> 288

<212> DNA

<213> Homo sapiens

<400> 49

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ccatccgaag caagattkca gatggcagtg tgaagagaga agacatatc tacacttcaa 60
agctttggwg caattcccat cgaccagagt tggccgacc agccttggaa aggtcactga 120
aaaatcttca attggattat gttgacctct acctatttca ttttccagt tctgtaaagc 180
caggtgagga agtgatcca aaagatgaaa atggaaaaat actatttgac acagtggatc 240
tctgtgccac gtgggaggcc rtggagaagt gtaaagatgc aggattgg 288
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<210> 50

<211> 411

<212> DNA

<213> Homo sapiens

<400> 50

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ccagagaatg acattcatgt ccccggtgat cccttgcaga gagtacatgg agccactgcc 60
accagtgggtg atggaaagca ctgtcttctt actccggaag ggctctttgt catacatggc 120
agcgttaagtg taagcaaact ctcctatgaa cactcgctca aaccagcctt tcagaatggc 180
agggactcca aaccactgca gggggaactg gaatatcaca aggtctgagg cttccagctt 240
cttttgttca gccacaatat ctgggctcag atggccttct ttataagcca gaacagactc 300
ggcaggatac tgaaagttcg cagggtcctt cagtttacct gtgatgtcct ttctggaaat 360
gatgggattg aagttcatgg catagaggtc cgactccacc acctccatc c 411
```

<210> 51

<211> 503

<212> DNA

<213> Homo sapiens

<400> 51

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gatatcttat gattaaaaac aaattaaatt ttaaaacacc tgaagatata ttagaagaaa 60
ttgtgcaccc tccacaaaac atacaaagtt taaaagtttg gatctttttc tcagcaggta 120
tcagttgtaa ataatgaatt aggggccaaa atgcaaaacg aaaaatgaag cagctacatg 180
tagttagtaa tttctagttt gaactgtaat tgaatattgt ggcttcatat gtattatttt 240
atattgtact tttttcatta ttgatgggtt ggactttaat aagagaaatt ccatagtttt 300
taatatcca gaagtgaac aatttgaaca gtgtattcta gaaaacaata cactaactga 360
acagaagtga atgcttatat atattatgat agccttaaac ctttttctc taatgcctta 420
actgtcaaat aattataacc ttttaaagca taggactata gtcagcatgc tagactgaga 480
ggtaaacact gatgcaatta aga                                     503
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<210> 52
 <211> 503
 <212> DNA
 <213> Homo sapiens

<400> 52
 gatatcttat gattaataaac aaatttaaatt ttaaaacacc tgaagatata ttagaagaaa 60
 ttgtgcaccc tccacaaaac atacaaagtt taaaagtttg gatctttttc tcagcaggta 120
 tcagttgtaa ataatagaatt agggggccaaa atgcaaaacg aaaaatgaag cagctacatg 180
 tagttagtaa tttctagttt gaactgtaat tgaatattgt ggcttcatat gtattatttt 240
 atattgtact tttttcatta ttgatggttt ggactttaat aagagaaaatt ccatagtttt 300
 taatatccca gaagtgaagac aatttgaaca gtgtattcta gaaaacaata cactaactga 360
 acagaagtga atgcttatat atattatgat agccttaaac ctttttcctc taatgcctta 420
 actgtcaaat aattataacc ttttaaagca taggactata gtcagcatgc tagactgaga 480
 ggtaaacact gatgcaatta aga 503

<210> 53
 <211> 531
 <212> DNA
 <213> Homo sapiens

<400> 53
 tttttttttt tttttaaaat gaggatattt tattattttca ggtaattttc ccagaggkga 60
 gaatagtaca tgggaaattc tcttttaggcc aggtctagta ttacagkgtg gkgctcaagg 120
 ccgcccatca gaacagtgat actctcccaa cagatttcat ccaccccgct tccactaact 180
 ttgcccataa aaattcctct gaattgtatc ttcttgggaag aagtaaataat ctgttcgact 240
 atacaaagaa acagagaaac cactcccatt gcaatcaatc ttcaagagag ggagcaggca 300
 agccgtgttc tttctgctga gttttataga ctctgacaag ctgtgaaata aacataaaca 360
 gaagacaaaa cagtgccaca aataagcagt agatgaccct gtgacaagac ggcatgtcag 420
 aacaaagact gacgttttaa ggggagtcac gcagagtaac atgggaacac aagcctgaca 480
 acctggtcag cttccactta ctctagctcc tttgaactct caacactaaa a 531

<210> 54
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 54
 ccatgggtgt ctggagcwcc ctgaaactgt atcaaagttg tacatatattc caaacatttt 60
 taaaatgaaa aggcaactct gtgttctcct cactctgtgc actttgctgt tgggtgtgaca 120
 aggcatttaa agatgtttct ggcattttct ttttatttgt aaggtggtgg taactatggt 180
 tattggctag aaatcctgag ttttcaactg tatatatcta tagtttgtaa aaagaacaaa 240
 acaaccgaga caaaccttg atgctccttg ctggcggttg aggctgtggg gaagatgcct 300
 tttgggagag gctgtagctc agggcgtgca ctgtgaggct ggacctgttg actctgcagg 360
 gggcatccat ttagcttcag gttgtcttgt ttctgtatat agtgacatag cattctgctg 420
 ccatcttagc tgtggacaaa ggggggtcag 450

<210> 55
 <211> 648
 <212> DNA
 <213> Homo sapiens

<400> 55


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taaagctcta gaggccgtca aattggcaat agaagccggg ttccaccata ttgattctgc 420
acatgttttac aataatgagg agcagggttg actgg 455

```

```

<210> 59
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 264, 266
<223> n = A,T,C or G

```

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<400> 59
ctcagaggca gcgtgcgggt gtgctctttg tgaaattcca ccatggcgta ccgtggccag 60
ggtcagaaaag tgcagaaggt tatggtgcag cccatcaacc tcatcttcag atacttacia 120
aatagatcgc ggattcagggt gtggctctat gagcaagtga atatgcggat agaaggctgt 180
atcattgggtt ttgatgagta tatgaacctt gtattagatg atgcagaaga gattcattct 240
aaaacaaagt caagaaaaca actngntcgg atcatgctaa aaggagataa tattactctg 300
ctacaaagtg tctccaacta gaaatgatca atgaagtgag aaattgttga gaaggataca 360
gtttgttttt agatgtcctt tgtccaatgt gaacattt 398

```

```

<210> 60
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<400> 60
gacttctgag acctggggca cccgggcctt tgcggcagct actggcaggg cctggccacc 60
tcataggact cagttccctt ctgaacactc gggggacatg ggcctctaac tgcccactct 120
gatatgcctg ggtgagccta ggagggaagg ctctgatttg gatttctcca gtcaaagctc 180
acagaaaaaa acctggcact ttgattttca tgggatggtc ctaacagggt cagtcacctc 240
cgagcagttt gggaaccagg tttcttgtcc tggggccctca ggtcagcctg gctgaattag 300
gacccttcct tggcacagggt gtgagaaaaga gcttggggaa cgcttggcat tatggagggc 360
tggaaggggc tcaacccoga tttggagaga agtttgggat ggagtgggag agagattgag 420
agagcgagca ggaaaagagg tcttggagcc tgggactgat ggtggataag gcctggaaag 480
aasatgacsa ggaggaggag agagggaagt ggggtgatga ggagcaggct ga 532

```

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<210> 61
<211> 466
<212> DNA
<213> Homo sapiens

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```

<400> 61
gcgacggcga cgtctctttt gactaaaaga cagtgtccag tgctccagcc taggagtcta 60
cggggaccgc ctcccgcgcc gccaccatgc ccaacttctc tggcaactgg aaaatcatcc 120
gatcggaaaa cttcgaggaa ttgctcaaag tgctgggggt gaatgtgatg ctgaggaaga 180
ttgctgtggc tgcagcgtcc aagccagcag tggagatcaa acaggaggga gacactttct 240
acatcaaaac ctccaccacc gtgcgcacca cagagattaa cttcaagggt ggggaggagt 300
ttgaggagca gactgtggat gggaggccct gtaagagcct ggtgaaatgg gagagtgaga 360
ataaaatggg ctgtgagcag aagctcctga agggagaggg cccaagacc tcgtggacca 420
gagaactgac caacgatggg gaactgatcc tgaccatgac ggcgga 466

```

```

<210> 62

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<211> 548
 <212> DNA
 <213> Homo sapiens

<400> 62
 ttttgaatth acaccaagaa cttctcaata aaagaaaatc atgaatgctc cacaatttca 60
 acataccaca agagaagtta atttcttaac attgtgttct atgattattt gtaagacctt 120
 caccaagttc tgatatcttt taaagacata gttcaaaaatt gcttttgaaa atctgtattc 180
 ttgaaaatat ccttggtgtg tattagggtt ttaaatacca gctaaaggat tacctcactg 240
 agtcatcagt accctcctat tcagctcccc aagatgatgt gtttttgctt accctaagag 300
 aggttttctt cttattttta gataattcaa gtgcttagat aaattatgtt ttctttaagt 360
 gtttatggta aactctttta aagaaaattt aatatgttat agctgaatct ttttggtaac 420
 tttaaatctt tatcatagac tctgtacata tgttcaaatt agctgcttgc ctgatgtgtg 480
 tatcatcggt gggatgacag aacaaacata tttatgatca tgaataatgt gctttgtaaa 540
 aagatttc 548

<210> 63
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 63
 ttccaaagc ggagacttcc gacttcctta caggatgagg ctgggcattg cctgggacag 60
 cctatgtaag gccatgtgcc ccttgcccta acaactcact gcagtgtctt tcatagacac 120
 atcttgtagc atttttctta aggctatgct tcagtttttc tttgtaagcc atcacaagcc 180
 atagtggtag gtttgccctt tggtagagaa ggtgagttaa agctgggtga aaaggcttat 240
 tgcattgcat tcagagtaac ctgtgtgcat actctagaag agtagggaaa ataatgcttg 300
 ttacaattcg acctaatatg tgcattgtaa aataaatgcc atatttcaa caaaacacgt 360
 aattttttta cagtatgttt tattaccttt tgatatctgt tgttgcaatg ttagtgatgt 420
 tttaaaatgt gatcgaaaat ataatgcttc taagaaggaa cagtagtgga atgaatgtct 480
 aaaagatctt tatgtgttta tggctctgcag aaggattttt gtgatgaaag gggatttttt 540
 gaaaaat 547

<210> 64
 <211> 528
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 374, 443, 444, 452, 476, 489, 515, 523
 <223> n = A,T,C or G

<400> 64
 cacctmctcc cscwggcgc ttwtctsgac gccttgccca scgggcccgc cgacccctg 60
 srccatggac cccgctcgcc csetggggmt gtygatketg ctgcttttcc tgrckgaggc 120
 tgcactgggc gatgctgac argagccaac aggaataaac rcggagatct gkctcctgcc 180
 cctagactac kgaccctgcc kggccctact tytccgytac tactacgaca ggyacacgca 240
 gagctgccgc cwgttcctgk rckgggctg crasggcaac rccaacwatt yctacacckg 300
 kgaggmttrc gackatgctw gstggargat agaaaaagtt cccaaasttt gccggctgma 360
 agtgaatgag gacnaccagg gtgaggggta cacagataag tatttcttta atctaakkwc 420
 catgacatgw gaaaaattct ttnnccgttg gngtcaccgg accggattga gaacangttt 480
 gcagatgang ctactgggat gggctcctgc rcacnaaga aantatca 528

<210> 65
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 408
 <223> n = A,T,C or G

<400> 65
 kgaatgaasa acgaacgctg gaagtagaaa tagagcctgg ggtgagagac ggcattggagt 60
 acccctttat tggagaaggt gagcctcacg tggatgggga gcctggagat ttacgggttcc 120
 gaatcaaagt tgtcaagcac ccaatatttg aaaggagagg agatgatttg tacacaaatg 180
 tgacagtctc attagttgag tcaactggtg gctttgagat ggatattact cacttggatg 240
 gtcacaaggt acatatttcc cgggataaga tcaccaggcc aggagcgaag ctatggaaga 300
 aaggggaagg gctccccaac tttgacaaca acaatatcaa gggctctttg ataatacatt 360
 ttgatgtgga ttttccaaaa gaacagttaa cagaggaagc gagagaangt atcaaacagc 420
 tactgaaaca agggtcagtg cagaaggtat acaatggact gcaaggatat tgagagtga 480
 taaaattgga ctttggttaa aataaagtga ataagcgata tttattatct gcaaggtttt 540
 tttgtg 547

<210> 66
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 66
 ggggaggtct acgcttctag agcttgagcc agcggggcga ccctgcagtg gcaggactcg 60
 gcaccgcgcc ctccaccgcc ggttgggtggc ctgcgtgaca gtttcctccc gtcgacatcg 120
 aaaggaagcc ggacgtgggc gggcagagag cttcatcgca gtaggaatgg cagccccatc 180
 tatgaaggaa agacaggtct gctggggggc cgggatgag tactggaagt gtttagatga 240
 gaacttagag gatgcttctc aatgcaagaa gttaagaagc tctttcgaat caagttgtcc 300
 ccaacagtgg ataaaaatatt ttgataaaaag aagagactac ttaaaattca aagaaaaatt 360
 tgaagcagga caatttgagc cttcagaaac aactgcaaaa tcctaggctg ttcataaaga 420
 ttgaaagtat tctttctgga cattgaaaaa gctccactga ctatggaaca gtaatagttt 480
 gaatcatagt gaacatcaat acttgttccc tatatacgac acttgataat taaga 535

<210> 67
 <211> 527
 <212> DNA
 <213> Homo sapiens

<400> 67
 atttctgcca cttaattcaa acagtcatat gcaggctcgt taattttatt gtgcttttgt 60
 ttcattcttct acaaggccct cttagctcta aaacttgaca gtggaataag gaaatgtttt 120
 tccaaatctg cattgccggt gagatcctca acatcagcat gttgagatgg acctcaacct 180
 cacctctaac cctgaaacac actactcgat attatcttag gtatgtttta gggtttagtt 240
 tgtaaaataa taattttatt ttgaaggaaa tataaaatat taaagagtaa taatagctat 300
 cattttttta gattcaatct aaaacaatgg actctttttt tttccatttg tgatgtagat 360
 aagcaagaca attttgatca tgagtgggtga aaagaggatc aaacttgact attcttgcaa 420
 tggcagtgcca gcaacaagcc tttcatttac attaaattat aacttttcat tcattcctaa 480
 accaaactta aaattctgct ttccttttag tagaagggtat ttaactt 527

<210> 68
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 68
 gggaaacttc atggggtttcc tcatctgtca tgtcgatgat tatatatgga tacattttaca 60
 aaaataaaaa gcgggaattt tcccttcgct tgaatattat ccctgtatat tgcattgaatg 120
 agagattttcc cataatttcca tcagagtaat aaatataactt gctttaattc ttaagcataa 180
 gtaaacaatga tataaaaaata tatgctgaat tacttgtgaa gaatgcattt aaagctattt 240
 taaatgtgtt tttattttgta agacattact tattaagaaa ttggttatta tgcttactgt 300
 tctaactctgg tggtaaaggt attcttaaga atttgcaggt actacagatt ttcaaaaactg 360
 aatgagagaa aattgtataa ccatcctgct gwtccttttag tgcaatacaa taaaactctg 420
 aaattaaaaac t 431

<210> 69
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 69
 gacacggcgg acacacacaa acacagaacc acacagccag tcccaggagc ccagtaatgg 60
 agagccccc aaagaagaac cagcagctga aagtcgggat cctacacctg ggcagcagac 120
 agaagaagat caggatacag ctgagatccc agtgogcgac atggaagggt atctgcaaga 180
 gctgcatcag tcaaaccacc gggataaaatc tggatttggg ttccggcgctc aagggtgaaga 240
 taatacctaa agaggaacac tgtaaaaatgc cagaagcagg tgaagagcaa ccacaagttt 300
 aaatgaagac aagctgaaac aacgcaagct ggttttatat tagatatattg acttaaaacta 360
 tctcaataaa gttttgcagc tttcaccaar aaaaaaaaa 399

<210> 70
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 70
 cgcgggcggag ctgtgagccg gcgactcggg tccctgaggt ctggattctt tctccgctac 60
 tgagacacgg cggacacaca caaacacaga accacacagc cagtcccagg agcccagtaa 120
 tggagagccc caaaaagaag aaccagcagc tgaaagtccg gatcctacac ctgggcagca 180
 gacagaagaa gatcaggata cagctgagat ccaggtgct gggaaggga atgcgcgaca 240
 tggaaaggta tctgcaagag ctgcatcagt caaacaccgg ggataaatct ggatttgggt 300
 tccggcgctca aggtgaagat aatacctaaa gaggaacact gtaaaatgcc agaagcaggt 360
 gaagagcaac cacaagttta aatgaagaca agctgaaaca acgcaagctg gttttatatt 420
 aggatatttg acttaaaacta tctcaataaa gttttgcagc tttcaccaaa aaaaaaaaa 479

<210> 71
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 71
 ctcagcggct gccaacagat catgagccat cagctcctct ggggccagct ataggacaac 60
 agaactctca ccaaaggacc agacacagtg rgcaccatgg gacagtgtcg gtcagccaac 120
 gcagaggatg ctcaggaatt cagtgatgtg gagagggcca ttgagaccct catcaagaac 180
 tttcaccagt actccgtgga ggtgggaag gagacgctga ccccttctga gctacgggac 240


```

ctggtcaccc agcagctgcc ccatctcatg ccgagcaact gtggcctgga agagaaaatt 300
gccaacctgg gcagctgcaa tgactctaaa ctggagttca ggagtttctg ggagctgatt 360
ggagaagcgg ccaagagtgt gaagctggag aggcctgtcc gggggcactg agaactccct 420
ctggaattct tggggggg                                     437

```

<210> 72

<211> 561

<212> DNA

<213> Homo sapiens

<400> 72

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ggatggtata ctgtaaattc agcatatgga gataccatta tcataccttg ccgacttgac 60
gtacctcaga atctcatgtt tggcaaattg aaatatgaaa agcccgatgg ctcccagta 120
tttattgcct tcagatcctc tacaaagaaa agtgtgcagt acgacgatgt accagaatac 180
aaagacagat tgaacctctc agaaaactac actttgtcta tcagtaatgc aaggatcagt 240
gatgaaaaga gatttgtgtg catgctagta actgaggaca acgtgtttga ggcacctaca 300
atagtcaagg tgttcaagca accatctaaa cctgaaattg taagcaaagc actgtttctc 360
gaaacagagc agctaaaaaa gttgggtgac tgcatttcag aagacagtta tccagatggc 420
aatatcacat ggtacaggaa tggaaaagtg ctacatcccc ttgaaggagc ggtggtcata 480
atTTTTTaaa aggaaatgga cccagtgact cagctctata ccatgacttc caccctggag 540
tacaagacaa ccaaggctga c                                     561

```

<210> 73

<211> 916

<212> DNA

<213> Homo sapiens

<400> 73

```

ggagaaaata aggtggagtc ctacttgttt aaaaaatatg tatctaagaa tgttctaggg 60
cactctggga acctataaag gcaggatatt cgggccctcc tcttcaggaa tcttcctgaa 120
gacatggccc agtcgaaggc ccaggatggc ttttgctgcg gcccctggg gtaggaggga 180
cagagagaca gggagagtca gcctccacat tcagaggcat cacaagtaat ggcacaattc 240
ttcggatgac tgcagaaaat agtgttttgt agttcaacaa ctcaagacga agcttatttc 300
tgaggataag ctcttttaag gcaaagcttt attttcatct ctcatctttt gtccctccta 360
gcacaatgta aaaaagaata gtaatatcag aacagggaagg aggaatggct tgctggggag 420
cccatccagg aactggggag cacatagaga ttccccatg tttgttgaa ttagagtcac 480
tctcatgctt ttctttataa ttcacacata tatgcagaga agatatgttc ttgttaacat 540
tgtatacaac atagcccaa atatagtaag atctatacta gataatccta gatgaaatgt 600
tagagatgct atatgataca actgtggcca tgactgagga aaggagctca cgcccagaga 660
ctgggctgct ctcccgagg ccaaacccaa gaaggtctgg caaagtcagg ctgagggaga 720
ctctgccctg ctgcagacct cggtgtggac acacgctgca tagagctctc cttgaaaaca 780
gaggggtctc aagacattct gcctacctat tagcttttct ttattttttt aacttttttg 840
ggggaaaagt atttttgaga agtttgtctt gcaatgtatt tataaatagt aaataaagtt 900
tttaccatta aaaaaa                                     916

```

<210> 74

<211> 547

<212> DNA

<213> Homo sapiens

<400> 74

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agtggcatta acttttagaa tttgggctgg tgagattaat tttttttaat atcccagcta 60
gagatatggc ctttaactga cctaaagagg tgtgttgtga ttttaatttt tcccgttcct 120
ttttcttcag taaacccaac aatagtctaa ccttaaaaaa tgagttgatg tccttatagg 180

```

```

tcaactacccc taaataaaacc tgaagcaggt gttttctctt ggacatacta aaaaataacct 240
aaaaggaagc ttagatgggc tgtgacacaa aaaattcaat tactgtcatc taatgccagc 300
tgttaaaagt gtggccactg agcatttgat tttataggaa aaaatagtat ttttgagaat 360
aacatagctg tgctattgca catctgttgg aggacatccc agatttgctt atactcagtg 420
cctgtgatat tgagtttaag gatttgaggc aggggtaatt attaaacata ttgcttctat 480
tcttggaaaa atagaagkgt aaaatgttaa taatacaaat gtcactgtga cctcctccac 540
tgagagg                                           547

```

<210> 75

<211> 793

<212> DNA

<213> Homo sapiens

<400> 75

```

tgaggaagtt gcaagccaac aaaaaagttc aaggatctag aagacgatta agggaaggtc 60
gttctcagtg aaaatccaaa aaccagaaaa aaatgtttat acaaccctaa gtcaataacc 120
tgaccttaga aaattgtgag agccaagttg acttcaggaa ctgaaacatc agcacaaaaga 180
agcaatcatc aaataattct gaacacaaat ttaatatattt tttttctgaa tgagaaacat 240
gagggaaatt gtggagttag cctcctgtgg agttagcctc ctgtggtaaa ggaattgaag 300
aaaatataac accttacacc ctttttcatc ttgacattaa aagttctggc taactttgga 360
atccattaga gaaaaatcct tgtcaccaga ttcattacaa ttcaaatacg agagttgtga 420
actgttatcc cattgaaaag accgagcctt gtatgtatgt tatggataca taaaatgcac 480
gcaagccatt atctctccat gggaagctaa gttataaaaa taggtgcttg gtgtacaaaa 540
ctttttatat caaaaggctt tgcacatttc tatatgagtg ggtttactgg taaattatgt 600
tattttttac aactaatttt gtactctcag aatgtttgtc atatgcttct tgcaatgcat 660
attttttaat ctcaaagctt tcaataaaac catttttcag atataaagag aattacttca 720
rattgagtaa ttcagaaaaa ctcaagattt aagttaaaaa gtggtttgga cttgggaaca 780
ggactttata cct                                           793

```

<210> 76

<211> 461

<212> DNA

<213> Homo sapiens

<400> 76

```

accttgcaact attcccctca gtccatctat cgaggctctt gcaggaagca tactgggaat 60
tgaaacgaga gcctaaatga catctaagaa aggcagtgtt caataccagg tattagggtga 120
ggatgggatt ctaaggacat cagtgggagg cagggagcca ccttcagacc tcagcatgga 180
agcttccaag atccagagga agaggcaaca gcactgagag tcataggtag aagaatcatc 240
acagccctgc taaccaggca gctgatgccc ctctcccctg gctccctgtg tccaaatcct 300
acaggggcat ctggttgctg aactcaacct gaagccaaag agaagatgag tggagagagg 360
caacatttat agagctcagg tttctagggc tggagaggga tctggaggga cacacaggag 420
acacctggca taaccaaaaa atgattaaaa aaaaaaaaaa a                                           461

```

<210> 77

<211> 642

<212> DNA

<213> Homo sapiens

<400> 77

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ggttgacagc aacacactgg ggaatggagc aaaacagtct ttgaatatcg aacacgcaag 60
gctgtgagac tacctattgt agatattgca ccctatgaca ttggtggtcc tgatcaagaa 120
tttgggtgtg acgttggccc tgtttgcttt ttataaacca aactctatct gaaatcccaa 180
caaaaaaaaa ttaactccat atgtgttcct cttgttctaa tcttgtcaac cagtgcaagt 240

```

```

gaccgacaaa attccagtta tttattttcca aaatgttttg aaacagtata atttgacaaa 300
gaaaaatgat acttctcttt ttttgctggt ccaccaaata caattcaaag gctttttggt 360
ttattttttt accaattcca atttcaaaaat gtctcaatgg tgctataata aataaaacttc 420
aacactcttt atgataacaa aaaaaarawa wattctttga atcctagccc atctgcagag 480
caatgactgt gctcaccagt aaaagataac ctttctttct gaaatagtca aatacgaaat 540
tagaaaagcc ctccctatct taactacctc aactggctcag aaacacagat tgtattctat 600
gagtcacaga agatgaaaaa aattttatac gttgataaaa ct 642

```

<210> 78
 <211> 519
 <212> DNA
 <213> Homo sapiens

```

<400> 78
gcagaagaag aagcggacct tccgcaagtt cacctaccgc ggcgtggacc tcgaccagct 60
gctggacatg tcctacgagc agctgatgca gctgtacagt gcgcgccagc ggcggcggct 120
gaaccggggc ctgcggcgga agcagcactc cctgctgaag cgcctgcgca aggccaagaa 180
ggaggcgccg ccatggaga agccggaagt ggtgaagacg cacctgcggg acatgatcat 240
cctaccgag atggtgggca gcatggtggg cgtctacaac ggcaagacct tcaaccaggt 300
ggagatcaag cccgagatga tcggccaacta cctgggcgag ttctccatca cctacaagcc 360
cgtaaagcat ggccggcccg gcatcggggc caccactcc tcccgttca tccctctcaa 420
gtaatggctc agctaataaa aggcgcacat gactccaaaa aaaaaaaaaa aaggcgcgcc 480
gccaccgagg gggagctcca cttttgttcc ctttaatga 519

```

<210> 79
 <211> 526
 <212> DNA
 <213> Homo sapiens

```

<400> 79
gtctggaggc ggtgtcctct ccgccctgtc gggtcctgga tgagtacgag ttaiggtcac 60
ggtcacagcc tgatctctta tgtgttcata gccattcgct ctcccatcag aactgtttgt 120
cctgaatgtg ttcctctagt tctagaaaat gaccactaat ttaaaaaact cggttgtgag 180
gtttgcccag aggcacttgt tccagaattt cccctcctgc ttcagccatg tccttgtcac 240
ttggcattct aagctaaagc tttagcttcc caattcgtga tgtgctaggc caagattcgg 300
gagctgttgc cagcctcgtc aaatatggaa gagaaacaac ctgcgggtcaa aaggagtgta 360
tttgtttaagt ggtgcgcgtc tatctcataa ctagatgtac caaccaggga agggccaagg 420
atggaaagg gtaacttttg tgcttccaaa gtagctaagc agaagtgggg gagcagttta 480
gccagatgat ctttgattag gcaaacattg agttttaaag aggctg 526

```

<210> 80
 <211> 281
 <212> DNA
 <213> Homo sapiens

```

<400> 80
gttatattag tgggtagtgt aacattttat ccaggttggg gtgaggggag atggccacag 60
tagcaagtgg tgacactaaa taccattttg aaggctgatg tgtatataca tcattactgt 120
ccgtagcaat gaaggataca gtactgtgtt gtgggtgagt gttgctattg cccagcatta 180
atatttgggt gtgtatgttt gaggtatga aacacgcagg agtgtttttg tgctattaat 240
ttaagagaa agcagctttt tcttaaaatt cactgttgag a 281

```

<210> 81
 <211> 405

```
<210> 84
<211> 527
<212> DNA
<213> Homo sapiens
```

<400> 84

```

cccatcacca gaatcccttc atgggagggga tggatgcctg ttgaaactca ctgacctatt 60
ggactgacgc tggggtggta tcttcatcag agctattgta agtcatccaa aaggcttctg 120
acgaaagaac aatttttaaa aagtcctctt tttcaatcaa gccaatgtcc tattttattt 180
ctaaaagttt tgggactcgt gctgttatca agtacaatga aaatggcttt ataaatagct 240
gttttgacat tgtgatagaa ggcttgaata cggaggaaaag atgtcgtggt agctagtcct 300
gagttccgac tgtccctgtg ttgggaatcc agtctgggaa agcaggactg ttttagcaaaa 360
cgtgtactcg ttctataaaa atgggaatctg ttctgcagggt taccgtccct ccccgcccaa 420
gcatcccttc tgtcctgtct ctctgctgct gggaccaggt gctttttcag ctgcagaacc 480
cactggactt ccaggaatca aggaaaaagt ggaaatgtcc aactgtg 527

```

<210> 85

<211> 401

<212> DNA

<213> Homo sapiens

<400> 85

```

cagtgtggtg gaattcccaa gatagaaatg aaaaactctt ttatagagtg ctgacatctg 60
acattgagaa attcatgcct attgtttata ctcccactgt gggctctggct tgccaacaat 120
atagtttgggt gtttcggaag ccaagagggtc tctttattac tatccacgat cgagggcata 180
ttgcttcagt tctcaatgca tggccagaag atgtcatcaa ggccattgtg gtgactgatg 240
gagagcgtat tcttggcttg ggagaccttg gctgtaatgg aatgggcata cctgtgggta 300
aattggctct atatacagct tgcggagggga tgaatcctca agaatgtctg cctgtcattc 360
tggatgtggg aaccgaaaat gaggagttag ttaaagatcc a 401

```

<210> 86

<211> 547

<212> DNA

<213> Homo sapiens

<400> 86

```

gaagcctctt gtgtttgtgt gcagagaagt atatgatcca ccatgctaata gacacttgcc 60
tttttttcca ccattaaggc tttaagaaca tgtggaataa gtttttttagc tgctaatagac 120
aaaacaaatc ctgtaactac ccagccagca agtatatagc acagaacact gtgttacttt 180
acaagggtct atgtgactgg aataagggtg tcccacttga ctgttcctaaa gagcagcttc 240
tcagatcttc agtggttact ggtaaaatttc taacagtgtg tttgtgtaaa gtttgtcatt 300
tcatactcca tacactacag ttgctgtcac tgatccctgt tttgctggct ttttaagctac 360
ttggtcaaaa atcctgcttc cttaaaacat agagaattaa tgagcatctc aagctttttc 420
ttttcctttt taatgatgcc tgcactatca agagtattct agtggttctc ctttgttttg 480
catataatca tgcaccaaac tttttatttc ttttaagggtg gagtatattt ttatttccta 540
aatgcca 547

```

<210> 87

<211> 530

<212> DNA

<213> Homo sapiens

<400> 87

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atggattcga aataccagkg tgtgaagctg aatgatgggc acttcatgcc tgtcctggga 60
tttggcacct atgcgcctgc agaggttcct aaaagtaaag ctctagaggc cgtcaaattg 120
gcaatagaag ccgggttcca ccatattgat tctgcacatg tttacaataa tgaggagcag 180
gttggactgg ccatccgaag caagattgca gatggcagtg tgaagagaga agacatattc 240
tacacttcaa agctttggag caattcccat cgaccagagt tgggtccgacc agccttggaa 300

```

```

aggctactga aaaatcttca attggactat gttgacctct atcttattca ttttccagtg 360
tctgtaaagc caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac 420
acagtggatc tctgtgccac rtgggaggcc atggagaagt gtaaagatgc aggattggcc 480
aagtcacatcg ggggtgtccaa cttcaaccac aggctgctgg agatgacatcct 530

```

<210> 88

<211> 529

<212> DNA

<213> Homo sapiens

<400> 88

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acctgagcta agaaggataa ttgtcttttg gtaactaggt ctacagggtt acatttttct 60
gtgttacact caaggataaa ggcaaaatca attttgtaat ttgttttagaa gccagagttt 120
atcttttcta taagtttaca gcctttttct tatatatata gttattgcca cctttgtgaa 180
catggcaagg gactttttta caatttttat tttattttct agtaccagcc taggaattcg 240
gttagtactc atttgtattc actgtcaactt tttctcatgt tctaattata aatgaccaa 300
atcaagattg ctcaaaaggg taaatgatag ccacagtatt gtcacctaaa atatgcataa 360
agtagaaatt cactgccttc ccctcctgtc catgaccttg ggcacaggga agttctgggtg 420
tcatagatat cccgttttgt gaggtagagc tgtgcattaa acttgacat gactggaacg 480
aagtatgagt gcaactcaaa tgtgttgaag atactgcagt catttttgt 529

```

<210> 89

<211> 547

<212> DNA

<213> Homo sapiens

<400> 89

```

gtttatatat atagcgaata aatctagttg tataaatttt taaatgccgt cagtagaaaag 60
cacacaaggc tatgattttt ttaattactg gcttctgatt tctttcactt ctgacccctt 120
tcctttttct cagatgtagc tgagtcttga tcattttaag acaacgatgg gtagaatttt 180
gagattaatg ttaattttcc ctttttggtt atttcagtc cctctcacta tgcttttgct 240
cagaaggatc aagaattcta ccatcccttg ggtctttgtg tataaacaat gttaaataaa 300
ggtagactca gtctttaaga tattagacag tttttttagt ccatgggatt gtaaataata 360
acattaactt tcctataaga atattttggc tttgtaattc atagccctca atttgtattt 420
attatggatt cactagacaa acagctgttt ccttattgtc ttttttcttt agtgtttctg 480
atttgctatc agtagctgtt tttaaagcca tccaaggaaa ataattattt acagtttttg 540
aagtcac 547

```

<210> 90

<211> 528

<212> DNA

<213> Homo sapiens

<400> 90

```

gagcagcaga agctgtacag caagatgac gtggggaacc acaaggacag gagccgctcc 60
tgagcctgcc tccagctggc tggggccacc gtgcggggtg ccaacgggct cagagctgga 120
gttgccgcgc cgcctccac tgctgtgtcc tttccagact ccagggtcc cgggctgct 180
ctggatccca ggactccggc tttcgccgag ccgcagcggg atccctgtgc acccggcgca 240
gcctaccctt ggtggtctaa acggatgctg ctgggtgttg cgaccagga cgagatgcct 300
tgtttctttt acaataagtt gttggaggaa tgccattaaa gtgaactccc cacctttgca 360
cgctgtgcgc gctgagtggg tggggagatg tggccatggg cttgtgctag agatggcggg 420
acaagagtct gttatgcaag cccgtgtgcc agggatgtgc tggggggcgc caccgctct 480
ccaggaaagg cacagctgag gcactgtggc tggcttcggc ctcaacat 528

```

<210> 91
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 91
 atataccatt taatacattt acactttctt atttaagaag atattgaatg caaaataatt 60
 gacatataga actttacaaa catatgtoca aggactctaa attgagactc ttccacatgt 120
 acaatctcat catcctgaag cctataatga agaaaaagat ctagaaactg agttgtggag 180
 ctgactctaa tcaaagtgtga tgattggaat taraccmttt ggscyttgra ccttymtwrg 240
 raaaawgrmc cmaccttityt taacmtgrac cwccytmatc tctagaagct gggatggact 300
 tactatyctk gttwataattt taaatackga aagggtgctat gcttctgtta ttattccaag 360
 actggagata ggcagggcta aaaaggtatt attatttttc ctttaatgat ggtgctaaaa 420
 ttcttcctat aaaattcctt aaaaataaag atggtttaat cactaccatt gtgaaaacat 480
 aactgttaga cttcccgttt ctgaaagaaa gagcatcggt ccaatgcttg ttcactgttc 540
 ctctgtc 547

<210> 92
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 393, 502
 <223> n = A,T,C or G

<400> 92
 gctggctagt aggggaacat gtagtagcca agcccatgca ttgcagtgca cagagcaaca 60
 ttggggtaac aggatgggta cctgtcacgg cctgtgcaaa cataacatgt gtcaccacac 120
 tgaaggtatg gtggaacaag tggcctcacc aaggctggac cccaatggac tttttgcctc 180
 ttgggagctt atgggtctat gaggacacag tagcctttcc tatcagcaaa ctggagtgga 240
 tgttgtatct gggggtggcc ttatgtacct gctactgttc tccccacatt gccagatgc 300
 ctgtataact gggaggcact gkgctctcag tttttgcgaa tgtgatgagc cccctgggtg 360
 ttctaccctt ttggcaatga ctatccctgg agncatgtgt caaaactgta aagcacaatt 420
 tactgtctct tgcgagcac accgctcatg ctctgaatta cacctgaktg tcctctctcc 480
 wgktawtgaa tgaggttgat cnvatcagaa adgtggkgtt ggcmata 527

<210> 93
 <211> 531
 <212> DNA
 <213> Homo sapiens

<400> 93
 ggtattcata cagccttctt aaaggcaatg ctttccacag gatttaagat accccagaaa 60
 ggcattcctga taggcattca gcaatcattc cggccaagat tccttggtgt ggctgaacaa 120
 ttacacaatg aaggtttcaa gctgtttgcc acggaagcca catcagactg gctcaacgcc 180
 aacaatgtcc ctgccacccc agtggcatgg cgtctcaag aaggacagaa tcccagcctc 240
 tcttccatca gaaaattgat tagagatggc agcattgacc tagtgattaa ccttcccaac 300
 aacaacacta aatttgtcca tgataattat gtgattcgga ggacagctgt tgatagtgga 360
 atccctctcc tactaattt tcaggtgacc aaactttttg ctgaagctgt gcagaaatct 420
 cgcaaggtgg actccaagag tcttttccac tacaggcagt acagtgtctg aaaagcagca 480
 tagagatgca gacaccccag cccattattt aaatcaacct gagccacatg t 531

<210> 94
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 547
 <223> n = A,T,C or G

<400> 94
 gttaaacaatg gtctgcgtgc cttaagagag acgcttctctg cagaacagga cctgactaca 60
 aagaatgttt ccattggaat tgttggtaaa gacttggagt ttacaatcta tgatgatgat 120
 gatgtgtctc cattcctgga aggtcttgaa gaaagaccac agagaaaggc acagcctgct 180
 caacctgctg atgaacctgc agaaaaggct gatgaaccaa tggaacatta agtgataagc 240
 cagtctatat atgtattatc aaatatgtaa gaatacaggc accacatact gatgacaata 300
 atctatactt tgaacaaaaa gttgcagagt ggtggaatgc tatgttttag gaatcagtc 360
 agatgtgagt tttttccaag caacctcact gaaacctata taatggaata cttttttctt 420
 tgaaagggtc tgtataatca ttttctagaa agtatgggta tctatactaa tgtttttata 480
 tgaagaacat aggtgtcttt gtgggttttaa agacaactgt gaaataaaat tgtttcaccg 540
 cctggtn 547

<210> 95
 <211> 1265
 <212> DNA
 <213> Homo sapiens

<400> 95
 gtgggtcaagc agtgattttt ctgggactgc agaagttcct gctgtgccca acctttatta 60
 ctaactggga aagaccagg gagactggga tgggctcatg attctacata cagaactcat 120
 ccaagaaagg aggaaaagct gatttttgtg aacgtcgcta cttgtgcctg aactaactct 180
 caggcacatt agtcagaaaa tactacctat ggttactocc ccaggttcct aaaagtaaaag 240
 ctttagaggc caccaaattg gcaattgaag ctggcttccg ccatattgat tctgtctcatt 300
 tatacaataa tgaggagcag gttggactgg ccatccgaag caagattgca gatggcagtg 360
 tgaagagaga agacatattc tacacttcaa agctttgggt caattcccat cgaccagagt 420
 tgggtccgacc agccttggaa aggtcactga aaaatcttca attggattat gttgacctct 480
 accttattca ttttccagtg tctgtaaagc cagggtgagga agtgatccca aaagatgaaa 540
 atggaaaaat actatttgac acagtggatc tctgtgccac gtgggaggcc gtggagaagt 600
 gtaaagatgc aggattggcc aagtccatcg ggggtgtccaa cttcaaccgc aggcagctgg 660
 agatgatcct caacaagcca gggctcaagt acaagcctgt ctgcaaccag gtggaatgtc 720
 atccttactt caaccagaga aaactgctgg atttctgcaa gtcaaaaagac attgttctgg 780
 ttgcctatag tgctctggga tcccaccgag aagaaccatg ggtggaccg aactccccg 840
 tgctcttgga ggacctgctc ctttgtgcct tggcaaaaaa gcacaagcga accccagccc 900
 tgattgccct gcgctaccag ctrcagcgtg ggggtgtggt cctggccaag agctacaatg 960
 agcagcgcac cagacagaac gtgcaggttt ttgagttcca gttgactgca gaggacatga 1020
 aagccataga tggcctaacc agaaatgtgc gatatttgac ccttgatatt tttgctggcc 1080
 cccctaatta tccattttct gatgaatatt aacatggagg gcattgcatg aggtctgcca 1140
 gaaggccctg cgtgtggatg gtgacacaga ggatggctct atgctgggtga ctggacacat 1200
 cgcctctggg taaatctctc ctgcttggtg atttcagcaa gctacagcaa agccattgg 1260
 ccaga 1265

<210> 96
 <211> 568
 <212> DNA

<213> Homo sapiens

<400> 96

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ccagtgtggt ggaattcggg ttaattacaa aatttgatca cgatcatatt gtagtctctc 60
aaagtgtctt agaaattgtc agtgggtttac atgaagtggc catgggtgtc tggagcacc 120
tgaaactgta tcaaagttgt acatatttcc aaacattttt aaaatgaaaa ggcactctcg 180
tgttctcctc actctgtgca ctttgctgtt ggtgtgacaa ggcatttaaa gatgtttctg 240
gcattttctt tttatttgta aggtgggtgg aactatggtt attggctaga aatcctgagt 300
tttcaactgt atatatctat agtttgtaaa aagaacaaaa caaccgagac aaacccttga 360
tgctccttgc tcggcggtga ggctgtgggg aagatgcctt ttgggagagg ctgtagctca 420
gggcgtgcac tgtgaggtcg gacctgttga ctctgcaggg ggcattccatt tagcttcagg 480
ttgtcttggt tctgtatata gtgacatagc attctgctgc catcttagct gtggacaaa 540
gggggtcagc tggcatgaga atattttt 568
```

<210> 97

<211> 546

<212> DNA

<213> Homo sapiens

<400> 97

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ttgtaccgta tctgtaggca tcctgtaaat aattccaagg ggaaaactaa acgaggacgt 60
gggttgatc ctgccagggt gagggtgggt cacacgctag ggtgagatgt cagaaagcgc 120
ttgtatttta aacaaccaa aagaattgta aggggtggctt gctgccaggc ttgcaactgc 180
gttcctgggg gtgtgcatct tcgggaaagg tgggtggcgg gcgtccacta ggtttcctgt 240
cccctgctgc tccttccgta agaaaatgaa atattctatg cctaatactc acacgcaaca 300
tttcttgtag tttgtaagtc gtttgcgaga atgcagacca cctcactaaa ctgtaaacgg 360
taaagagatt tttacttttg gtctccgtga gtgcgcatct tactaagggt tacacaggaa 420
ttccacctga agacttgtgt taaagttcta cagcgcgcac tgttaactga acgtcttttt 480
cttcagccta tacgcggatc cttgttttga gctctcagaa tcaactcagac aacattttgt 540
aactgc 546
```

<210> 98

<211> 547

<212> DNA

<213> Homo sapiens

<400> 98

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tactgggtgc caagctatgt gccaggcact ttacatgtat tgatttaaca cttaacagcc 60
actctatatt attccctttt tacagatgag gcaatttaag ctcaaagcat ttaagtagac 120
aaccaacctt gaatcacata gcaaagtaca gaagccagag gcctcccaag tctctctaac 180
tccaaaccct atgcttactc tactatatca cactaccttg caataggaca aagggaatat 240
gtggtaaaact atgttccag catctaaaag ccaggagtgg ttttcatttt tctttaagaa 300
gatgatagtg tgatttgaaa catatctgaa tttcagaaga ggggactttt aaaaattgcc 360
actcataagg aaagaaagaa ctttttcaca tatttttgaa agaaacgatg gtgagaagat 420
attcttgata atagagatat gctaacattt gctttgggtg tttttagagt tagatttttt 480
tggtgtgtac tttataggct tgcatattgc ttacttttaa cagctgaagt tctaagtaag 540
agtgttc 547
```

<210> 99

<211> 122

<212> DNA

<213> Homo sapiens

<400> 99

```
cagcctttct gtcacatct ccacagccca cccatcccct gagcacacta accacctcat 60
gcaggcccca cctgcccaata gtaataaaagc aatgtcaactt ttttaaaaca aaaaaaaaaa 120
aa 122
```

<210> 100
 <211> 449
 <212> DNA
 <213> Homo sapiens

```
<400> 100
ctgacggctt tgctgtccca gagccgccta aacgcaagaa aagtcgatgg gacagttaga 60
ggggatgtgc taaagcgtga aatcagttgt ccttaatttt tagaaagatt ttggtaacta 120
ggtgtctcag ggctgggttg gggccaaaag tgtaaggacc ccctgccctt agtggagagc 180
tggaagcttg agacattacc ccttcacacg aaggaatttt cggatgtttt cttgggaagc 240
tgttttggtc cttggaagca gtgagagctg ggaagcttct tttggctcta ggtgagttgt 300
catgcgggta agttgaggtt atcttgggat aaagggctct ctagggcaca aaactcactc 360
taggtttata ttgtatgtag cttatatattt ttactaaggt gtcaccttat aagcatctat 420
aaattgagtt ctttttctta gttgtatgg 449
```

<210> 101
 <211> 131
 <212> DNA
 <213> Homo sapiens

```
<400> 101
ccatgtttct ttttgactac gcatatgtga gatttgcccc tccgccccgc tcgtgatagc 60
catccagatc ttttacctgg ccctgtcttg gagaatctgt tttcaatctc cactgattgc 120
ccccttgctg g 131
```

<210> 102
 <211> 199
 <212> DNA
 <213> Homo sapiens

```
<400> 102
ctgctgcgcc tgatgctggg acagccccgc tcccagatgt aaagaacgag acttccacaa 60
acctggattt tttatgtaca acctgaccg tgaccgtttg ctatattcct ttttctatga 120
aataatgtga atgataataa aacagctttg acttgaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa 199
```

<210> 103
 <211> 321
 <212> DNA
 <213> Homo sapiens

```
<400> 103
ttttttaggt ttttaaactt tttatttgca tattaataaa attgtgcatt ccaataatta 60
aatcattttg aacaaaaaaaa aatggcactc tgattaaact gcattacagc ctgcaggaca 120
ccttgggcca gcttggtttt actctagatt tcaactgtcgt cccacccccca cttctttcac 180
ccactttttt ctttcaccaa catgcaaagt ctttccttcc ctgccaccca gataatatag 240
acagatggga aaggcaggcg cggccttcgt tgtcagtagt tctttgatgt gaaaggggca 300
gcacagtcac ttaaacttga t 321
```

<210> 104

<211> 309
 <212> DNA
 <213> Homo sapiens

<400> 104
 tttttttttt tttttatttt ttttttttgc tcaaaaaact ttattttccat ttggcccaag 60
 gcttggttagg atagttaaaa aagctgccta ttggctggag ggagaggctt aggcaaaacc 120
 cctattactt tgcaaggggc ccttcaaaaag tctctgggct tctatttcaa ccgcgatgat 180
 gtggctctgg aaggcgtgag ccactttttc cgggaaactgg ccaaggaaaa gcccgagggc 240
 tacaaccgtt tctgaaaat gcaaaaccag cggggcgggc gcgctctttt ccaggacatc 300
 aaaaagcca 309

<210> 105
 <211> 591
 <212> DNA
 <213> Homo sapiens

<400> 105
 cttattttctg catgggtcgg agagtgggag ggaactgctt actgagttat agtgaatgta 60
 gttttaacct aagcgctca catgactaac tctcatcca tcaagaatga gctcagctct 120
 cacttcccca ctctcacc cctgtaaag taacctttct ccaaggttat gcttcaacag 180
 gaatagctaa catttattaa attgtggcac gtaagtatct tggatatatt ggctcattga 240
 atcctcacac ctactatttt acagagatgc cagtggggct tgagattgaa tcacttgccc 300
 aggcctccac tgctggtaaa cagtagaggg ggctcctgac ccatcagctt ggcttgacaa 360
 cccattccct caactgcgga tcccggaatt ccttatcacc ctgttgattt ctccataggc 420
 tgtggtaaca tttgttgcac gaatggaccg ttgaaatagg gcttggcagg gagaaattca 480
 ggaaatgaat gaatggttct tccctggcag cctttgatga cttacaagcc ccttcaaggg 540
 ggaaagccat ttttctccct gggactcctt gaaagcccgg gagccctgcc t 591

<210> 106
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 106
 ctgccactcc tgccctctgct accccgaaac cggagaggga gctcaataat aacacaggtc 60
 ccactaaact aattaagggt ttggcataac ctgtcattga attcaagtgt ccaacaactg 120
 tttgcttaaa atatcattag acctaataatt tttttcaaag gcacaaagtt taaacatggg 180
 gggggcgggt gttgagagg gtctgggata cccttaaacc caaaaaagtg atttgttccc 240
 ccttggccag aagggtgact gttccactgg gcctgtcacc acaggacatt ttccatgaca 300
 agcactcacc ttcttgggga aggggcatca gggttggcaca ggaaaggccc aagtgagggg 360
 ccactctgta cattaatact ttggtgatta atgtttgggg agaggcagga ttctcaccca 420
 cctttttgac ttcaaact ctcaactcaag 450

<210> 107
 <211> 116
 <212> DNA
 <213> Homo sapiens

<400> 107
 tcgacgaaaag ttactgtcac tcagttgtaa atccatcagc ttttcacctg ttaaaaattt 60
 tgcaaaatat acatgttctc ctccgtgttt caattcttcc atcttttttc ttgagg 116

<210> 108

<211> 291
 <212> DNA
 <213> Homo sapiens

<400> 108
 ctgctcgaag ttgtcaaaac ccacgtgcag ggcaatggag agtccgatgg ccgaccacag 60
 cgagtagcgt cctcccaccc aatcccagaa ctcgaaacatg ttttgagggt caattccaaa 120
 ctcccttcaact ttggttggtgt tagtagacag ggcaacaaaag tgcttcgcca ctgcagtagg 180
 atccttgggc gcctggagaa accactcctt cgccgtctct gcattcgtga tggctctcctg 240
 ggtagtaaaag gtcttgaggg caatgatgaa cagggaggac tcgggggttca g 291

<210> 109
 <211> 662
 <212> DNA
 <213> Homo sapiens

<400> 109
 gctgtttcca cagtacgcct gcctcacacc ttgcgatgcg ccaacatcac catcattgag 60
 caccagaagt gtgagaacgc ctaccccggc aacatcacag acaccatggt gtgtgccagc 120
 gtgcaggaag ggggcaagga ctccctgccag ggtgactccg ggggccctct ggtctgtaac 180
 cagtctcttc aaggcattat ctccctggggc caggatccgt gtgcgatcac ccgaaagcct 240
 ggtgtctaca cgaaagtctg caaatatgtg gactggatcc aggagacgat gaagaacaat 300
 tagactggac ccaccacca cagcccatca cctccattt ccacttggtg tttgggtcct 360
 gttcactctg ttaataagaa accctaagcc aagaccctct acgaacattc tttgggcctc 420
 ctggactaca ggagatgctg tcaacttaata atcaacctgg ggttcgaaat cagtgaagacc 480
 tggattcaaa ttctgccttg aaatatgtg actctgggaa tgacaacacc tggtttgttc 540
 tctgttgtat cccagcccc aaaagacagc tcctggacct tgccccggg cgccccgctc 600
 ggaaaggggg cgaaatttct tcaagaatat ttccatttcc acaaacttgg ggccgggggc 660
 cc 662

<210> 110
 <211> 323
 <212> DNA
 <213> Homo sapiens

<400> 110
 tcctgtgaaa cagcccattt tcctacctac tgtgggttgc tgctcaggag gaacgatata 60
 cgccaatata agcaggaaat ctgcagctcc tctgctatgt gcctcagaac actttcaatt 120
 tttctggtca atgctctgat taggtatcat acataaaaagc cagcatatta gtttaaatct 180
 ctaacaaaaa actatatatt ccaaagtcac tatcatttgg gccaattaag tgatcttttc 240
 gtgctttgtt gagcttcac tttagggcac ctctctcttc ttccattca tgaagttcgg 300
 catttccatg tgcaaattta cag 323

<210> 111
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 111
 tccagtgcgc tccagcctta tctaggaaaag gaggagtggg tgtagccgtg cagcaagatt 60
 ggggcctccc ccatcccagc ttctccacca tcccagcaag tcaggatatc agacagtcct 120
 cccctgaccc tcccccttgt agatatcaat tcctaaacag agccaaatac tctatatcta 180
 tagtcacagc cctgtacagc atttttcata agttatatag taaatggtct gcatgatttg 240
 tgcttctagt gctctcattt ggaaatgagg caggcttctt ctatgaaatg taaagaaaga 300

aaccactttg tatattttgt aataccacct ctgtgg

336

<210> 112

<211> 218

<212> DNA

<213> Homo sapiens

<400> 112

```

tttttttttt tttttttttt tccagtcagg agtattttta atcactgtct acagagacac 60
ctacatacac acacgggtgg ggaatgaacc caaagttttt aggtgaagtc tctcagggcc 120
caccocgtgc cacagacctt cctcggttgc agagattctg ggcaaagcat cctgtctctc 180
atgagattat cctggggaga tttagaagaa ttttgtgg 218

```

<210> 113

<211> 533

<212> DNA

<213> Homo sapiens

<400> 113

```

ctgcaccgac agttgcgatg aaagttctaa tctcttccct cctcctgttg ctgccactaa 60
tgctgatgtc catggtctct agcagcctga atccaggggt cgccagaggc cacagggacc 120
gaggccaggc ttctaggaga tggctccaga aaggcggcca agaattgtgag tgcaaagatt 180
ggttcctgag agccccgaga agaaaattca tgacagtgtc tgggctgcca aagaagcagt 240
gcccctgtga tcatttcaag ggcaatgtga agaaaacaag acaccaaagg caccacagaa 300
agccaaacaa gcatcccaga gcctgccagc aattttctcaa acaatgtcag ctaagaagct 360
ttgctctgcc tttgtaggag ctctgagcgc ccactcttcc aattaaacat tctcagccaa 420
gaagacagtg agcacaccta ccagacactc ttcttctccc acctcactct cccactgtac 480
ccacccttaa atcattccag tgctctcaaa aagcatgttt ttcaagatct aaa 533

```

<210> 114

<211> 261

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 43

<223> n = A,T,C or G

<400> 114

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ccatatctgc tcggcgctac ttctttcttg gattgatcct gantgatgca ttggcgatgc 60
ctttggagaa ggacatgtga tgtgatggtc ttcaogttcc acatgtactc gggcaaatag 120
ggggacaaac tgaagttaaa caggtcgaaa ctagaggagc tgctgacctt ggagctgacc 180
actttcttgg ggaaaaggac acatgaaggt gctttgcaaa agctgatgag caatctggac 240
accaacatag gacaacaacg t 261

```

<210> 115

<211> 267

<212> DNA

<213> Homo sapiens

<400> 115

```

cctctcctgt gggttccaga ccctgttcca gcaacaattg ctgggacacc tgggccgact 60
gctccacctc gccaggccct ggccctctcc atctcagccc tgacagccac ccagtgataa 120

```

acacagcagg cttcctaagc aatgtgacgc accagagggg tgggtgtaca cggtccccctt 180
 gaagtcatct gaaaattaga gaacagattt gcctcatagc tgaagagaga ccctattcca 240
 agcatgaatg gccttgacaa tggtcct 267

<210> 116
 <211> 239
 <212> DNA
 <213> Homo sapiens

<400> 116
 ctgatgacct ggggtctagt gaaaatgcag ggtcagattc agtgggtctg gggctctgaat 60
 ctctaaggcg ctgccaaagt atgctgatgc tcctggcttg tggaccaccc tgtgtatagc 120
 aaagctctag actaggaggt ctcaacottg gctgcacaga attatctggg gagtttttaa 180
 atttcccagt gcccgagctg cattcatatc atagtagaga cagggttttg ccatgctg 239

<210> 117
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 117
 aaaaaacttt tatattgctg catcttccac agttctttgg gtagtctctg aacttaaaat 60
 ttgtaggagt ttagactac ctaaattttt aagttatgga tttgttcata ggtttagagg 120
 gtaggtaaag aaggaaacag acaagaaaat ggcttcttga ggtggcag 168

<210> 118
 <211> 150
 <212> DNA
 <213> Homo sapiens

<400> 118
 aaaaaaaaga gtttatttag aaagtatcat agtgtaaaca aacaaattgt accactttga 60
 ttttcttgga atacaagact cgtgatgcaa agctgaagtg tgtgtacaag actcttgaca 120
 gttgtgcttc tctaggaggt tgggtttttt 150

<210> 119
 <211> 154
 <212> DNA
 <213> Homo sapiens

<400> 119
 aaactgtgtg agatattaac cagccgccct gttataaaat caggaaatcc aaacagcgat 60
 ttacaccgat taacaccccc ttttatattt tttcaaatac actgagaaaa taatcaaagc 120
 ttttcatctc tcttgtcttt tttgtttttt tcct 154

<210> 120
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 120
 ctgcgtggag tgacgggagg agggaatcac tgtgtgtgag agagtgtctc agactcaatt 60
 tccaaaataa ttttcacccc tctaagcatg taaattcaaa gatggatcct tcatagaaat 120
 taaaaaatca atttgagctc atttcgaata cagaacaagt atggcacaga tggaagtcc 180

gccacgtttc ctttaaatgat gctgactctt gtatcacaca ggccagcatg aagttttctta 240
 ctcagacttt acaggcattt tccgtaattc aatcagtcct gctcccagca caacacagga 300
 ggtgattcga gaat 314

<210> 121
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 121
 aaaaaaaacc taattcattg aagtaataac caaataattt tcaatcttga ttcaactgtg 60
 attcaaactc tacaccattt gccccttcta tgaatttatg tataaaaattt tttaagagtc 120
 agagtttttt tttcttgatt aattggatgt atttcacaga atttccaact gctcacgtta 180
 gttttcttcc ttttagagtt gatctctcta atgtattaga tcttcatgcc tttgatagtc 240
 tctctggaat aagtttgcag aaaaaacttc agcatgtgcc aggaacacaa cctcaccttg 300
 atcagagtat tgtacaatca catttgacgt accaggaaat gcaaaggaag aacatcttaa 360
 tatgtttatt cagaatcttc tgtgggaaaa gaatgtgaga aacaaggaca atcactgcat 420
 ggaggtcata aggtggaagg gattgggtgtc aatcaacgac aaatcacacac aagtgattgt 480
 ccagggtgtc catgagctct gtgatctgga ggagactcca gtgagctgga aggatgacac 540
 tgagagaaca aatcgattgg tcctcattgg cagaaattta gataaggata tccttaaaca 600
 g 601

<210> 122
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 122
 ctgttttctaa ttgcttttgt gactgttacc ttttagttca tgcccccca aagagctaaa 60
 tttcacattt ttacctacaa aattgatttt taattcctgc aaataattta ccattatgag 120
 ctacaagggtg ggcaacagcg cctgaggatc taattttatg catattactc ccaagtattt 180
 taacacttgt tggagaagca atatctggat caataaaaca ctgtcccatc aaccatttga 240
 gtggggagag ggagaagctc ttctgtgaagt aagattcttg caagctcttt gaaatgagtc 300
 ttctttccca cagattttct ctactctttc aatacaaaaca gataggagaa gaggggaatag 360
 aaacctggag gaacttgaat atttttgttc tagatagaga tacagttatt gaaaaggaaa 420
 cctagaaagt agtcacacgt cgcttattta ggccagaagt aattgtactg ggcaaaaatt 480
 tcactt 486

<210> 123
 <211> 239
 <212> DNA
 <213> Homo sapiens

<400> 123
 ctggtgggtc tttttttcct ctcagagctc aagcctgtag tgcttgatgt cttttctttc 60
 aagttgcca cagtatctcc acttaaaacta ggctagtaac caaaataatg tggaccttct 120
 ttaggaaaca gtgtgggaga ataggagtcc agcogtaaga taaactggaa atatttgggc 180
 gtcttgtacc tggctacgca ccacctcagt gttgttctta cataaacaag gcccctttt 239

<210> 124
 <211> 610
 <212> DNA
 <213> Homo sapiens

```
<400> 127
cctccacggc atggcgcaat tgttggttcag gggcgccag gttgctgcc atgccgatgt 60
agatacgttc cacgtgctta ctgccagac gactcgaag cgtgccagc gctacgtttg 120
cgcttgctgc cactgctgcg ggcacgcttt ttcgggccat cgccggtggc ttgcctttg 180
ctgctgagct ctttgatcat ctgcgggcgc tggctgtcgt tggcgtcctg gtagtcggtc 240
caccactgc caaggccgtc ggtctgttcg ccggcgcttt cacgcagcag caggaagtc 300
tagcccgga cggaagcgcg ggttgctcag caacaggtcg gcacgtttgc cgctgcggcg 360
tgccaggcgc tcctgcatgt ccagatttc acggatcggc atggtgaagc gtttcgggat 420
```



```

ctagcggaga gttcccagag ggtgtctgga agaagcaaag gctattcttt gtttcaactca 540
gttatagatg gaagtcagac acttctgcct gaagtacttt cacacactcc acagtcttaa 600
gaaggatgga naaagcatgc caactactca naaaaccaca ggtgttcaag caatggatc 660
cttttatncc tacaactagt ggacaaagng gggcctctgt aattgggaa agctaggaaa 720
actttttctg ggg                                     733

```

```

<210> 131
<211> 305
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 16, 19
<223> n = A,T,C or G

```

```

<400> 131
aaacacatac gaatanttna actgtgatta tgaagtgaca gccggctaaa tatgtcttgt 60
atcttctctc ttcttttttt tgctaaactca tcctttattc cattcctgct tccatggtaa 120
tgcaggctca aataaattac taggatacaa gattacttca agcctctttt ctgtggaact 180
cataatatga taagcatttg ttacaagatt gcctgtagtt gtttagggga caaattatat 240
tagggaaaga aagtctttct ttagttggtt aaattttcta ttataattgg gtactaaatt 300
tattt                                             305

```

```

<210> 132
<211> 545
<212> DNA
<213> Homo sapiens

```

```

<400> 132
aaacaatgct acactcattt ttggcaaagt gctgtattgt tcagtctgtg tacaaaactg 60
accatctatg aaccaatcag tataaaaaat ttctataaaa acaaaattta gacagcggct 120
caagaaaaca agctgccatt tatgcataga ttgatgtaca gtaacctaac caaatgtccc 180
ttttgaattt tcaagttact gaaaaaaaaa gtgtcgagaa acacattaag aaggcacatg 240
tacagtctac aatactcttc agtctcccta actcatgccc tgcccctata aaggaaatat 300
gttcacaatt ttacttgaga aaaaaaaaca aagccactta aaaaaaaaaa aacacacacg 360
caattattaa agttcaaaat ctctggagga aaatacaagc aaaaccactc atacactcca 420
agcctgaaac acacatctaa cctccccagg tactggtttg gttttcagag gtccacctag 480
aaaacaaatc taaaacttca ggcaaaacag agcaaaactg gacatttaac aattacaaa 540
ttttt                                             545

```

```

<210> 133
<211> 330
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 36, 68
<223> n = A,T,C or G

```

```

<400> 133
aatattttatt actaatatct tataatgttt tgtggnacca tggcatacct tgggtactat 60
tgaacanat agttcaggaa accctactat aaggtttatc aaatgggtctc ataaacagtt 120

```

```

acttattcaa gcacgccaaa gctcagtgaa aagtattttt cacccttact ctttctcgtg 180
tcattcaaag agaagttttg atgtagtgta tttatttgta gggagtaatg aacagatcca 240
tttcacagta gactttgtgc tctaggtgat gcagctaatt gccccagttt ggaaaacatg 300
gacttggatg aattgtcttt tgtttgggac                                     330

```

```

<210> 134
<211> 627
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 99
<223> n = A,T,C or G

```

```

<400> 134
aaatattact tcaaatacat tttaaagctc aacaaaacttg tgttgaactg aattgcagat 60
cctgaactct atttgaaaat acatcatgaa acagaaaanc ccattccaaa tgaaaatgat 120
agtgccttgt tgggggtggg aatgaggcgg ggagactaaa tcactattaa cagacttctt 180
ttcccaatgc aatttgtcaa aagttcaaaa gttctgaaat gtactaaatc ttaagcaaat 240
taaattcatg atattactaa aactttttta atagtgcatt gacttatcaa gttatagtgg 300
ctgcattaag aacaaattat tgtgtgaaat acctgtataa acacaaaata caattaaata 360
tttctttaca aaaagctgag cattacgcac aatagtggaa tgtctttcat taggtgtatt 420
ttttaaagat taacaaaagt aacatttctt aaaatgtata catgtgccat atttttgcaa 480
acatgcctga gaatgtattt aaaacatttc tgtagtaaga gtttgcaaga acttcacaaa 540
cctgcaaata aaatgcatct ttttaaaaag gtgaaaatgg catctccaca ctgcaacaat 600
tcaaaaagtg cagcatccct aatcttt                                     627

```

```

<210> 135
<211> 277
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 45
<223> n = A,T,C or G

```

```

<400> 135
aaaatcaa atattatttg ttaaaaaatca gcttggttca ttacnggaaa ttacaccagt 60
ccgttctatt tactttcaaa ccatattcaa ctctcactat ttcaaactat taatcaacta 120
atttcaaaaag ggaaaaggta ccctttataa aggagagatc tgttaagaca ccaagaaatc 180
aaaattaata tcacttaata attaagtggg taacacatgc ctccaatac agtgcagtga 240
gaaacacaaa acatcaattc ccgcgtactc tgcgttg                                     277

```

```

<210> 136
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<400> 136
aaaacagaat gaattcattg ttacagttac agaagtcaga agcccaaata cagtctgcct 60
gaaccaaagc cagggtcagc aaggttcctt tccactgttt tgccaacttc tagaggccac 120
ctgtattcct tgggttcattg ccctctctt catcatcaaa taatcagcat agctttatga 180

```

```

cattggcagc tctgattttg ctctttttgcc ttctctttat gtagaccctt gtaattacat 240
tgggtacacc cagataaccc caaataatct ccctatctca agattcttaa tgtaattata 300
ttgggaaagt ccctttttgtc atataagata acatagcaat ggattccaag gattagtatg 360
tgagtttctt ttgagggggtc ataattaacc ctaccacaat atggaaatgt ctattgtttt 420
tctatgtacc agaaataaga cattaggatg tgaaattaat aacataacac cacttacggc 480
atcacc

```

```

<210> 137
<211> 552
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 310
<223> n = A,T,C or G

```

```

<400> 137
ccatcttgca tcaaattgttc ttaaggcagt gactggctat caaccacagt ttctgtctcc 60
ccagttgcaa acacaggatc catgcaacag ttctgagacc atacacttag aaaccacagg 120
ggatgcggtat caaatgcaga actcccaaat tataaaacag tcaggctaca ctcaaaacaa 180
aacatagaac atcaacaaca cacatctccc aaaaaagaag tgcaacgcat gcttgataaa 240
accaacaata acaaaaaaac cacaataaaa aatgcagagt ctcccaaaca agttttcaaa 300
tgtattgcan aaagaaaaaa aatgtatata tatataaaat taaaaagtct gaaatactag 360
tgcatagtca attacctaac accaagtttc ttttctttct gtccaagctc tactgcccct 420
ctgatactag cagcatgtct acaggctaag accatagcag caaaaaacgt ttttcatttg 480
gcatttacaa aattaaatta ctgaataaaa atataatttt ttataaaaact atttcttaca 540
gtaataattt tt
552

```

```

<210> 138
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<400> 138
aaatttttact agtgttactt aatgtatatt ctaaaaagag aatgcagtaa ctaatgccct 60
aaatgtttga tctctgtttg tcattacttt ttcaaaatat ttttttctgt aaagtataat 120
atataaaact tcttgcttaa attgaatttc tatattagtg gtttaattgca gtttattaaa 180
gggatcatta tcagtaattt catagcaact gttctagtgt tttgtgtttt t
231

```

```

<210> 139
<211> 535
<212> DNA
<213> Homo sapiens

```

```

<400> 139
cagttgccaa ccctctgaac cgttttaggcc ggttcacgc tgcctttgaa tctgggccgg 60
tggtgatccg gcaaggggtg aaaccaaaga gcgggggctg tgaggccctt cgcagtcctt 120
cgtaagtgcg tgcgatggag tgaactatca cgcacgtgtt ttatttcgtc aacacgaaat 180
gtgattttatt tttgcgaatt aacacggcag ttctcgggta cgttttcgga aagcgtggga 240
tatgattctg tctatcctgt acggatatac agtaattacc gggaggggat tccatggcga 300
agaagcaggc ggcaccggca gcacggcagg aaatgagcgg tatggcgcg ctcgggcttc 360
gcgtctcatc gatgattaat caccgggtcg ccagacgca gcgctgggtt acgattcatc 420
gcctggacac ggatggggat cgggagtggg aagaggttct gagcgtgatc gctgataccg 480

```

acgagctcga gctgacgctc aatgacgatg gcagtgtgac ggtgaggtgg gagca 535

<210> 140

<211> 640

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 557, 559, 591, 599

<223> n = A,T,C or G

<400> 140

```
acattggtgg cacttgaact gagtgcaaac cacaacattc ttcagattgt ggatgtgtgt 60
catgacgtag aaaaggatga aaaacttatt cgtctaattg aagagatcat gaggagaag 120
gagaataaaa ccattgtttt tgtggaaaac aaaagaagat gtgatgagct taccagaaaa 180
atgaggagag atgggtggcc tgccatgggt atccatgggt acaagagtca acaagagcgt 240
gactgggttc taaatgaatt caaacatgga aaagctccta ttctgattgc tacagatgtg 300
gcctccagag ggctagggtta gtacaaaactc gcattcatgg cttggtttcc cagaagatct 360
ccatttaact tttttaaaga aagtttattg ctttctttaa cctgcatttt ttctaagttt 420
tttttcgcat aaaggtgctg tctttgtggc aaggcctagg catgacaatc ggaggactcg 480
agggggatgg aggactagtg atccggctgg ctgcttccag tcgattagag aggtgaaaaa 540
gctgaacgtg tgcccantna atcttcaaaa aggcagaaac atatcacctt ntgccccnt 600
aaacttggtc tttttccgaa ggggaaaaaa aaaatggaaa 640
```

<210> 141

<211> 127

<212> DNA

<213> Homo sapiens

<400> 141

```
aaaaatcaca cactgacaac acagaaatac gaaatgctag gaaaagtcta gcatatgaag 60
gaaaaacatg tcttatgcac tctaataataa ttttttcaat tagtataaag gcaaatgcgg 120
ttttttt 127
```

<210> 142

<211> 126

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 18, 44, 46

<223> n = A,T,C or G

<400> 142

```
aaatatcctc tggatgcntt caagtaatac taatcatttc atgnngnaaaa gtcttttaat 60
aaacaaattc agagtaaaat taattgaaat atttataata catttggtac acagttattt 120
ccaata 126
```

<210> 143

<211> 730

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 512, 555, 603, 608, 685, 721
 <223> n = A,T,C or G

<400> 143
 gcaagttctg gagtggtcac ttctgagcct gaattccctc ccctgcaaaa tgggggaata 60
 ccctcctcag aggggtccctg cgaggggtgag gggagatcag catggcaggt gtgctgggca 120
 cggcagggcc tgggaagggc agatcccttc cccatccctg ccacaaacaa cccaaacctt 180
 taaaggagag caatggcctt gtgtcaaaaa caaaaacaaa acaaaaccct gtcctaggag 240
 actggggccc taattttctaa tagcaagcct ttatgagtcc ctaacactct actgggctga 300
 gtatctcaca cgccagagga taacctgcct tctgtctacc accaccccggt agtagttgtc 360
 attgtgtcca tttcacagat gaggcaaagg ctgagaagag tcatgtgtta aaccagcttc 420
 tagagcccat gcaggagctg cagggtgggga gaatcacctc taggtgctct tcccatggaa 480
 tcctcacccct ccttgagtgg tcaactcactc anctttccaa tgggtgtgtg accittgacc 540
 agctttcttt ccttntctgg gcctcagttt cccaccttgg acaaagtaag aggtctcttg 600
 ggnttcangg tagttcttcc taacttcttt tccttttcat ttgagcatcc ttcttcattt 660
 tttgccacct ctcttgtcat tacangcttt taccttcggc cgccaaccac gcttaagggc 720
 naaatttcca 730

<210> 144
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 144
 ctggtcagaa atgattctct tgtgacacca tggccacaac aggtctgggt ctgtcctccc 60
 catatgttac ctgaagatgg agctaccttt cctctgtgtg gcattttgtc gcttatccag 120
 tcttctactc gtagggcata ccagcagatc ttggatgtgc tggatgaaaa tcacctgtgt 180
 tgcgtggttg gtctgtgtcc gccacttcta atctcatca tgacaacgtc aggtatggca 240
 tttcaaatat agatacaacc attgaaggaa cgtcagatga cctgactgtt gtagatgcag 300
 cttcactaag acgacagata atcaaaactaa atagacgtct gcaacttctg gaagaggaga 360
 acaaagaacg tgctaaaaga gaaatggtca tgtattcaat tactgtagct ttctggctgc 420
 ttaatagctg gctctggttt cgccgctaga ggtaacatca gccctcaaaa atattgtctc 480
 aacag 485

<210> 145
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 145
 ccaagacagc tcgtttcttg agagtatgag ggtgtgtttt cttattgtga aaggaactac 60
 cttctcttag agggtaggaa gaatgtggtg tgtgtgtgtc tcataaagca accggacatt 120
 ataggtgccc aggtcatcta taaaaacgat ccttgggctg tgtaaaaatg aagtggcttt 180
 tcagtatcct ctttcacact tgctgcttcg ggagactatg caatgatggg aaggtgattg 240
 cccctttatt tcattcagtg ccatggtccc tgttgttgta gtaatttatt tgtttagttc 300
 attttttttt tcttaacagt caaggggaag agtgattcct cacactgctt tcaagctgga 360
 ctgagccagt ctcatcttg gaaagaaatg ctgtgtccag aactcagcag ctccatctat 420
 tttttccagt cgaaagaaac tgatctttag gcagttttta cttgg 465

<210> 146
 <211> 351

<212> DNA

<213> Homo sapiens

<400> 146

```
ccagccgggg taatctgtat gtggcggact tgagctacga cgtgggcggc aagtgcctgt 60
ttgaccagat cagcggcgtg aagcttatgc caactcatcg tttgataaat ccgaggatca 120
gttcaagacg tcgcagcggg tgattttggg aacgtcgttt tcggtcagta aattgtgggt 180
agcgacggag tggttgatcg gcaagaatga tccgtatatt ggcgaggagca gctataaccga 240
gagcctgggg gctggggggga gtaaccagtg ggagaatcag ttatatatga acattgggga 300
ctacttctga cttaagatct ccagcgtttt aactggcctt atcgcaggca a 351
```

<210> 147

<211> 654

<212> DNA

<213> Homo sapiens

<400> 147

```
acttattttt aattactgaa tatttcttag acgttttggg acagatttta tgtaatcttt 60
ataagtatga tttctgaaga aaagcaaagt cattagtagt tttgccttaa actttagtag 120
taaaccaagt attgtaaaat aaacagcgat aacagtgtata gtttttaact ctatggatcat 180
tgtatcactc tggaaaatgt ggagtagctg taataaatct actcctgtat tatgctttac 240
agtgcaggtc ttagtttttc ttttttctca tttcttttga aatggcatct cgaacaaagt 300
ccaccaatcc ctttcaaaa gaatgaactg ctctctgtg tgtacttcat agaagggtga 360
atcggagaga ggcaggttag tgacagttag tctgaaata caggagcaga gtacagtctg 420
ttgtggtttc ccggttccg cgcctagctc agccaattaa gcatgagaca taggccattg 480
agccacttag tagttatcgc agtggataga ttggtatgta agagggaaag aggtctgctg 540
taaagaacaa cacttgtttg tctgtgggga aagaaaagca gaatcttgag atgaaagttg 600
gcatacaaat aggatactat cgccagtagg ttatattaca aaacatttat cggg 654
```

<210> 148

<211> 539

<212> DNA

<213> Homo sapiens

<400> 148

```
tgaatatcat gaggtgatt ttcacctgat tgcaaaactg ccatagtttg aaacactttt 60
tcaattttacc agacacactc tgtcaagact tcatatactt ccaacttgca agcctgtgtt 120
ttgccttctc caacctaaaa aggaaaagct ttaaagcatg aacttacatt ctattaaacc 180
atcagacttg agcttatcca tctgttttagc gtgaatgtac aaaccaggta catttccacc 240
aaacacatag aaaaatcttg tgcatacag ttcagctaag ggtagtagga caatccttac 300
aatcctcctt ggatttcttt ttttaagatgt caaagaagca ggtaagcaac attgttcatt 360
tggttactggg tgttctagat caaaccttca caagctatat atatagcttc atatgctata 420
gcttacaaat ggggtaacaa agtaaaaagaa aagaacaaat tatactttga cactttatag 480
tcaaagtata attaaaaaag aaatcctaca gtgggtaatg gagaaataga taatttttc 539
```

<210> 149

<211> 273

<212> DNA

<213> Homo sapiens

<400> 149

```
tttttgggtc ttctcctcaa ggagccgctg gatagtagtc ttgattgact tccaccttgc 60
ccctcataca gtccggtact aaggccaccg acatcccag gaacctccgg aaccacgacc 120
gccaagcaac tcgaccacg atagggtggg cctacgctct cgaagttgat tggatgctcc 180
```

cgccctacagg gcgggggtaca gaaggggacgt cattttgtgac tggacgcgca agagctatac 240
tcagcagctt tcctctgtcc cagcccctag aac 273

<210> 150

<211> 200

<212> DNA

<213> Homo sapiens

<400> 150

gtttttacta ccgtatggcc cattttaaag ggatgtgtac gccttacact ataaccctta 60
aaccacctag aaatatgaaa ctcaaactgc cactgacctc cctcaccaag ctccataaaa 120
gtaaaaaatt ataacaaacc ttattaacca aactgaacga acatatgggc gattgattca 180
ttgccccac aatcctaggg 200

<210> 151

<211> 515

<212> DNA

<213> Homo sapiens

<400> 151

ctgtagcgat ctttaagaat attttatata tgaaatctgg atttaggggt cccatgggtct 60
ggcaccactg ggtacagtag ttctacatgg cagtaattca ttggagttga agcagtgagg 120
aaagagtcaa gtactagtct tttatcctca gtgtccagtg actgtcaaga gaaatgggac 180
tgccttctgc attgggatat gtgggttaaa gagtagtcca atatagaaga gtgagaaaagt 240
gmaccctctg aggcatagta atgttttatt kraaaacatc tcacatgtat tgaatactta 300
sataggatgt attctgtatt actgaatttt ccagattatt gaagcaatca cctttctgtg 360
tttaaagttt tagaaagaat gcttttaaaa atgcttaaca taagataagc ctgttttcat 420
ggtgcaaggc cctttctatg aacatgaatc actggactct gagggttgga ctaagatcac 480
atctacatcc cttttaaatg actagtgtgc tcaga 515

<210> 152

<211> 243

<212> DNA

<213> Homo sapiens

<400> 152

atttcaacaa catacttgtc gaggtagtta taaatcttct tagggggagg tgggtggtttc 60
tgttggaatg ccaattttac agcttctgct gctgattcag gttctttaat tatgcttttc 120
tttgagtctg cttcagatag cacaacaaaa aaatgatgac acttttcaca cttgacaaaa 180
cgggtggatg atacaaaagg tctctacatg tgtgcacaag tcgccacatt taggacagcg 240
cag 243

<210> 153

<211> 620

<212> DNA

<213> Homo sapiens

<400> 153

ttgtcttctc taccttacca tagccagttg ctttcathtt aaaccagagc aagtaacata 60
ttagtgactt gaatcttcat aagttaaagt aaaaaacagc aaaaaaccta gatctttgtc 120
ttttagaaca cagaccatth tcaggaaagc agttagctaa gtgtttaatt catgaatatt 180
gtatactgca tcccctacca caatttacac aatcctgtgg atagtcttac ctcacccttg 240
tcaacctaca tgatccttaa gctaattggc gatcacgatg accttgtaga catgcacaca 300
actatacctt tgtccaacag atcataatat atctgctatc caactggttt tacctgccta 360


```

atccccccaga attcctcatg tcacctagtt caattttccat taactcagat cagccattgt 120
gattcaccat ttgtcaggct ctcaggttta aaaaaaccta ctatcaccat catccttcaa 180
cagccacagt ctgaattgag ccaacatttt tttttctttg agaaagaagt gggctggggc 240
acaactttta gtctgagggg agctagtagt cggcttgaca attaaagcca tccataacaa 300
cttttcctca aatgtgttga ctcctcaggg gctaaaactgc tcttagctta gaattatgct 360
ttactagaga tctaccatat aagtgggtta atcactacca tcctgtaact agttatatag 420
cttcagaca tgagggagac atcaaacagg gatggaagca accccaagga tatgcaagaa 480
gggcatgatg aacccccctt cctctggcag gagaacaagg ccaaccaagg gacagactgg 540
aaagcactta gatgtttaag gaggagaaag ggggaagcttt gaccagtcct tgccttttgc 600
caagttcagc cagtctctcg ctgcttgcaa cctctagcgc agtaacattt tgcagaattg 660
cagattttcc c 671

```

<210> 157

<211> 474

<212> DNA

<213> Homo sapiens

<400> 157

```

cgcggttcttt aattctttta gcctagaaag tccttttacac tacttaccta aaggtcccaa 60
agtaaaacac acactagtag taaggctagt gcatttccct tctagcactc aaagaaagct 120
taacattttt gacagtttgc aaataccgcc ttgtattttct gattcagcct tattcaaagt 180
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aacgttaggc ttctctgttg ggccctaact tggaggtgct tttttggatc cctcctcccg 300
tgattcattg taatttcatt tcctttgtca tggctctgac cagagaagat tctaaatatc 360
tgcccccaaa gccaaaatta tatcttttga aaagtgaat gaagagttga gtcastaatt 420
tatttttagat attactgcct aaaacaattc cccaaaattt atggaagttg gagg 474

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<210> 158

<211> 584

<212> DNA

<213> Homo sapiens

<400> 158

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agtgccaaagt ttagtcaatt taccctacct ggaatactat atacaactct gggctctcatg 120
tgtgttaaaa tacatacagt gaagctgagg aagagccact gaagtaaaaa gtattgttta 180
caagttggaa aggatgtaaa aataatctaa agtatactaa gtcaggaata aaaggcagag 240
ttaataaaaat tgtggctggt actgatagac gaaacagata tatttttctaa atcctggaat 300
aattattaaa aaattttaca tgtatcaatg gattccagac tccatatttt aagtttcaca 360
actactgtca tttaaaacta taccttattg aacgtctccc actctcaata aattacccca 420
aatcactctt ctccaaaacg taaatttgga acacactgac ttacaaaattt tgggcttaat 480
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<210> 159

<211> 671

<212> DNA

<213> Homo sapiens

<400> 159

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agatttcttt ataattataa cccttgagga caatttgaac tttattttaa tgttctgctc 180
aaatctaaat ttcttctctc taggctgaag cctgatctaa ataaggaagt agttgggata 240

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tatccacagg ctgtcgaaca tggagctgca tctgagagac aggtggcagc aacccaaaagc 300
 aaagcaggga ctgagaacag gcagggttcca agagcaaaat ggaacttgaa agccaagtat 360
 ggttcactgt aaaggagaaa atatagaaat acggaactag aacacctggt ctgggatgtg 420
 gtaagcaccg aaaatatagg aaaactgtat gaattcttgt gaagcagtaa actatgatag 480
 taatcatgtg acacatatga taacaaactc aaaacaggga aaagaggggc tttattcaat 540
 gctggagata agtgaaaaaa aaagtgaagt gtctcaagga cagaagttat catctcaaaa 600
 aggcataatca gctagatctc gcggaaacca tatgattatc ataattctag actctgttcg 660
 gtattacaaa g 671

<210> 160

<211> 315

<212> DNA

<213> Homo sapiens

<400> 160

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 atgtcataag gatttttaact ttcatgtaac ataattgctg taaaagtttc cccagtttgt 180
 tttgtgctat ttaccttggg gttaaaatgt gtaagaattt acatttttagg tatgttaggt 240
 ttattccttt ttatatgggt tctgtttgaa attttgattt tagaagacat tcattctcaa 300
 ggtcataaaa cacac 315

<210> 161

<211> 607

<212> DNA

<213> Homo sapiens

<400> 161

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 aagggtattat aactcactgt tattttgata attgagataa atgtacgtac aagtgccttg 120
 aaactgtaaa gtgcattata aacagaggga tttaccatag aggttctacc ttgatgtatc 180
 aagagaagcc ttttctggaa tctgggtgcag ccttgtgaga tgctgttagg taaggggact 240
 ccttggtaga atttcttaca tttgtgtaaa aagttctggt tcctgagtaa ttccaaagaa 300
 gatgctatga ggagttcact gtgcctttga tttgatccca atgggtcaga atatgttttc 360
 tcattcagta ggctactaca ggatttgaag tagaaaaaac aggggtccagt gaccttcacg 420
 ggatcctaga tgttcatgaa tttcaatcat ttgagattgt ggggtgtggt ccaatgctgc 480
 tctcaaaaag atgttgctt tcttcasaga gcattaataa ctaaaaaatc ccttgggtccc 540
 aaattttattg tgtgtmtctg aaggctttaa ctgaagaaat gaaawgcaca ctcatggaac 600
 aaactaa 607

<210> 162

<211> 443

<212> DNA

<213> Homo sapiens

<400> 162

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 ttaggtccta ttcataattt aagtagcatg tttgtaacct gttactatct ggagagagaa 180
 gcagttgcct gccacaattg aagactacct ttcaaatagc aaaagagaga gagaaggctg 240
 atatttcggg ctttttaaata aagattttgtg tggttctgct tttactgtaa ctgtcacttt 300
 cccagtgaat atgatttcat atacatttga ggggtcttaca sgtatgggta aagttctata 360
 aattgcaaca aaatgatacc caatttcatt ttatcctttt tgtattgtga aactggaaac 420
 tttatgacat tgtaaattat cag 443

<210> 163
 <211> 686
 <212> DNA
 <213> Homo sapiens

<400> 163
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 cccattgtt ctcctagaca aggccatgaa ctggcaaaac aagagattcg agtgagggtt 180
 gaaaaggatc ccagaacttg gatttagcat atcagggtgt gtcgggggta gaggaaaccc 240
 attcagacct gatgatgatg taagttagct ttgtatatc ttgaaacacc tataaagttt 300
 tatttaccga ttgaatactt aaatgtaagt gaaaatctaa tagatgttta tgtaaatacta 360
 ggtagacatc acctggattc cccactctat tgcttacctt tttgttttgt aatttgatca 420
 gttcaagtta aaacaattta accaaaaact atgaatgttt atgatataat gaaatgattg 480
 ttaactttct tattgctttt tcacacacct ataaaagtaa ttttattact cccaagagaa 540
 atcactaaag gcagaattac tagaggtaaa aataactagg gttggtacag tattactcag 600
 gagaagtcaa ggggagaaaa cttgtcccaa tgattcaaaa taattttggc atgggggggg 660
 ggagggaaaa aaatttggct tccttt 686

<210> 164
 <211> 706
 <212> DNA
 <213> Homo sapiens

<400> 164
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 tccataacac agaaaatgca tggacatgca tctacagtag agttaaaaat ttcctgtgac 180
 taaaaaatta aaaactggaa tcaccagtag caaatgtata gtcaatggct atgacaagaa 240
 cagatcctgc cgagctcata aatgcaatta ttggcttttt tgctttataa aaaagacatt 300
 acatatttta ttgcattatt ctcttaataa aaaacatact accacgtagc tctccccatc 360
 cccattcttt gcttcagat ttttatagaa aataactgtt ttagtctggc cttggaaagt 420
 gaaccaccca gcaccacctt cacctactca ctcttcaatt caatatgcac atagcaaaag 480
 ccaacacttc aaatctcttg cccacatcaa aaaaagtagt ttcaggagaa aaacattaat 540
 accagttgaa taaaaataag ggcataaaaag ctatgagaga gatagctctg ccactctgtc 600
 ctgggctaaa aatcaaggct aactattgcc tttggcacca caaggttcaa ggtccatggt 660
 tttattagaa aagtccccac aaaaaaatta aacccccctc acccca 706

<210> 165
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 165
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 caaaatctcc ttaagctgat aagcaacttc agcaamgtct caggatacaa aatcaatgta 180
 caaaaatcac aagcattctt atacaccaat aacagacaaa cagagagcca aatcatgag 240
 tgaactccca ttcacaactg cttcaaagag aataaaatac ctaggaatcc aacttacaag 300
 ggatgtgaag gacctcttca aggagaacta caaaccactg ctcaaggaaa taaaagagga 360
 tacaacaaa tggaagaaca ttccatgctc atgggtagga agaatacaata tggtgaaaat 420
 ggaaaaa 427

<210> 166
 <211> 124
 <212> DNA
 <213> Homo sapiens

<400> 166
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 ccgaggattc gtggaatctg cttgatcaga gactctgagg ccaaaaacgc atcatacttc 120
 ttgg 124

<210> 167
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 167
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 gtcaccataa ataaatgtaa attcattgta caaaaattcc caacaactct taatacaaat 120
 atggtacatt tgacagtttc tgaaacagat tattttttaa acttttttaa acctaaagctt 180
 tatttttttc ctggttatta gacacacaca aaaaaataa aaagaggctg gg 232

<210> 168
 <211> 677
 <212> DNA
 <213> Homo sapiens

<400> 168
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 atgcatttgc cactttattg cattttttaa atctttattc tatagtgaat tgggtattccc 120
 aatctgccta agcaaaggca tgcccttcta acaagatttg cttagagcag aggtgataga 180
 aggaagaatc cgaagaccct ctggcatggc aatctgggag cagcacattg ttgatggagt 240
 ccaagtgagc acatttcaca caattcattt agtgacaagt gggcttgctc ccttttcata 300
 caggaaaaaa actactcaca gaccactgcc cagaatctgg aataagaacc ctcattttta 360
 ggtattcttc ccaacaaata aatatctaaa tattgaaagg gggcatatca gaaaacttaa 420
 aagacacaat aaccaaaaacc aaaaccctct tcaaaacaag taagcaatgt ctgtatttag 480
 ttcactctaa aacattctta gcttttcttg cagtttggtc ctaaaagatt tgattgggca 540
 caagaggaac gaaattatta ataaaataaa agcttatttt tgtttttgct gtggataatc 600
 ggtacaaaac gtttcagat ctgagactta aatggatctt ttaaggtgaa aaggagaatg 660
 ccaggttcta ctgaaat 677

<210> 169
 <211> 635
 <212> DNA
 <213> Homo sapiens

<400> 169
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 gacgcacatt tttgtactgg cacatattct tagacgacca attatagttt atggagtaaa 120
 atattacaag agtttccggg gagaaacttt aggatatact cggtttcaag gtgtttatct 180
 gcctttgttg tgggaacaga gtttttggtg gaaaagtcg attgctctgg gttatacagag 240
 gggccacttc tctgcttttg ttgccatgga aatgatggc tatggcaacc gaggtgctgg 300
 tgctaatactc aataccgatg atgatgtcac catcacattt ttgcctctgg ttgacagtga 360
 aaggaagcta ctccatgtgc acttcctttc tgctcaggag ctaggtaatg aggaacagca 420
 agaaaaactg ctgaggaggt ggctggactg ctgtgtgacg gaggggggag ttctggttgc 480

catgcagaaa gagttctcgg cgggcgaaat cccccctgg tcactcacat ggtacaaaaa 540
 tggctttgac ccgctaccga cagatccggc cgggtacatc cctgtctgat ggagaggaag 600
 atgaggatga tgaagatgaa tgaaaaaaa aaaaa 635

<210> 170

<211> 533

<212> DNA

<213> Homo sapiens

<400> 170

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 gagatgttgg aaagcccttg aacttggctg ttaggaaaca tccacactga agaggaacct 180
 gactgtatgg aaggtaaaaa aggcctgtatt aatttcatg caaaaagtca cactagagga 240
 atgccatata agaatgcttt tggtaaataat acatgtttta aagaggttat atatcattaa 300
 taaaaatata tagctggtct gaagaccctg agttatctca attgttcacg gttacagatg 360
 gaactcttta ttattgagga gttccactct ttccccatt tgtcactact acacttccct 420
 agtctttaaa acaatttttag gctgggtgca gtggctcatt cctgtaatcc cagcactttg 480
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<210> 171

<211> 568

<212> DNA

<213> Homo sapiens

<400> 171

cccttgscac actttccctt aagtattgca ctacaagtot aagacacttt tcaactcaaag 60
 ttcttctctt ctttacctct cttttaactt ggagtcagac ttcatcagc ctgacaactt 120
 ctccctgtct ctttctttt ccccccttca caagcatttc acctaacaaa ttctttatgt 180
 gcttaaatccc ctcttagaag cagatgccaa gatgggatta agcacataag aggtcctgga 240
 ctaatacaat gacaaaggct ccccttgaag catcacacta aaaggaaaaa aaaaaaaaaa 300
 acctagccat ttacatttaa ctatttctaa aatatagtat ttgcttccct atttgctaaa 360
 acaaaatata ctaaactatga ctattccaaa aatctgtagg gtactaagaa tatgaagaga 420
 ttcactctac ttcaggggat ggagtgttag tagaaaaggc tttgtggagg gaggggtggtg 480
 tttgaaatgt actttaaaag ccacctcaa agcctcgagg gctatacctg gcctggtgat 540
 tatccaagga cagtccattc aaacaggg 568

<210> 172

<211> 167

<212> DNA

<213> Homo sapiens

<400> 172

ccattttacag gaatcagcca cttcagttca gacagcttta ttaaaccgcc tggagcgaat 60
 tttcgaagca tgttttcctt ccatacttgt ccctgatgct gaagaggaag ttacttccct 120
 gaggcacttg ctggaaacaa gcactttgcc aataaaaacg agagagg 167

<210> 173

<211> 391

<212> DNA

<213> Homo sapiens

<400> 173

cctcccaag tgctgggatt acaggcatga mcmccmcgc cctgatgata gacacgtttt 60

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taactttctaa aaatatatga tcatgattgt gtctgtggag acttgcacat atactaaatt 120
ttaamcaatt agagatatatt gtccattaac acattttggg agtcattatt tcctctatga 180
agagagaaaag gaatttgata caagttcaca ggggcttcca gtagattgag actttttattt 240
ctagctgagc tgctgatgta tgaatttttt ttgktattat gactttcata tgtattaaaa 300
ataaaatgaa aaaacaaggg attaggtgag gaacctatac gtctctaata tgcaaaatac 360
cacagaaata atgactgktg ggaaaattag g                                     391

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<210> 174

<211> 474

<212> DNA

<213> Homo sapiens

<400> 174

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gaactcagag agaggattgt cacccttggc atctgagctg acactataag gacaatgagg 60
agtctccttg gggatagatg gggagatgga aggacgatgc ctgtcctacg gggctcttga 120
aggttaggga tacacactgt gagctgccac aggctcaaca gtacggatag ggggtgctgg 180
aaccagccag ggctctgatc accaagctat gtgccccatg cagaggaagg ggtagtggca 240
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cttacagggg aagacgggga ggaaggatga actgtgtgcg gtgatgttgc agtgagtgtg 360
agtttgtgtc cgtccgcttg tatgagggcc taccttttac taactagccc ccaactttca 420
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<210> 175

<211> 655

<212> DNA

<213> Homo sapiens

<400> 175

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aaccatcctt gttgatattc ctgtacttcc cgaaagttaa ttcgttattt ggactccata 180
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cttgacgact tgtgaagaat taatctggaa aacttaacct atttataaaa acgtgttatt 540
aagggcaggt tattccacc ccctttacca aagaaaccgg ccctgacctt tttttactgg 600
gggttggtct tgggcatttt caacaagggg ggaacagttt aaaaattccc ccctt 655

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<210> 176

<211> 660

<212> DNA

<213> Homo sapiens

<400> 176

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cctgggtcaaa gtgggcatta ccattcaagc attactagac atcacgta cgaaggctct 60
gttcacatga aactaccctt tctccattgg gggctcagac tctgctctca tccaggatcc 120
tgaactctgc tccaggcacc tgttcaacct tctctccac ccactgcctg tcacttcact 180
gactccagtt acattgaaac aattttcagt ctaaggggagg attttctacc tttcagagct 240
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aaaaaaaaact gagcaagcac atcaatgcct tttccaccct tcttcactct ttccacactc 360
accgactgcc attaccaaaa cgccaagcac aaccggtttg gaacaagacg cattccgttt 420
taattaaaaa caatcatta tgtatttttag tgggggggaa ggggggcaca atcagggttt 480

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tcaccaccaa attttccaca cggtttctga acaccattgc cttttaaaaa actatTTTTTc 540
cacctccaaa atattttattt aaatttttatt tattacggag gtgggtattct tcctttggga 600
gccaaattgg gaaatttagg gaaccttttt tattaccggg ttttttgggc gggtaaacc 660

<210> 177

<211> 459

<212> DNA

<213> Homo sapiens

<400> 177

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atgaaatgaw tttttaattc aagaamcatt cagaamcata ggaattaaaa cttagagaaa 120
tgatctaatt tccctgttca cacaaacttt actctttaat ctgatgattg gatattttat 180
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tggtatgatt tttttttaat gtatcagytt gaacctagaa tattgaatta aaatgctgkc 300
tcagtatttt aaaagcaaaa aaggggaatgg aggaaaattg catcttagac catttttata 360
tgcagtgtac aatttgctgg gctagaaatg agataaagat tattttattt tgkctatgyc 420
ttgkactttt ctattaaaat cattttacga aaaaaaaaa 459

<210> 178

<211> 720

<212> DNA

<213> Homo sapiens

<400> 178

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cccttctttt gagatccctt tcttaaaaagg gtccattcta ttaacctac cccatatcca 180
gttactttta ctacctgctg atctatcgct acctgtcca attcatggga attacagggt 240
gcactgggac aagagtaaaa tgatccaaca aacataatgt tgcattttaa aaaataagct 300
aaaagatact gatgactttt tataactaca acatattogt ttgtgaataa gaacatatat 360
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ccaaaattat ctatctatat atttttatta aaaacaccca cagtaattat ggcaaatgtt 540
aatggtttgt ttgttctaag gttttggata catttaagat ctcttgcttt ctgggtacca 600
tttcttttct tttcttttct ttttttttca aattaattcc aaaagactta tatctgctac 660
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<210> 179

<211> 427

<212> DNA

<213> Homo sapiens

<400> 179

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tttctct 427

<210> 180
 <211> 728
 <212> DNA
 <213> Homo sapiens

<400> 180
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 taactgctta gatatatatg aagtaaaaaat gaaagttctc cttttacatg acccatcccc 180
 catcattttcc ctcttttatct tatactgtca gcattcccag cttgtagcac agtgtctggc 240
 aatagtaaat cctcaaaaaa tgatcaatga ataatttaat aatgattaat aaataaatta 300
 atgatgatgg tgaagataaa ttttagcatt tattgaacgc taactacaaa ccagggagtg 360
 tggtaaatat tttataaaaa tcaatgaatg agctaaaatg ccattctatt atttttttgg 420
 atacggttta atatttttact cataaatatg cttaaagaat attataatta tatgacttag 480
 aatggtaaaa caatatgtac agcagtatcc tatttttttag aataaaaaata taaatatgtg 540
 ctcacatatg tggttggggc atgcctagaa acccgattag aacgggattt tttcttacca 600
 ccattttttt tacctgggaa aaatatggga aaattttatt tcccttcttt ttggttctaa 660
 aatttatata caggagccta tttggctttg gataaatcat tttaaaaaag gtggttttaa 720
 aaaaaaaa 728

<210> 181
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 181
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 ccaagaaagg aaaaattaag tttgcagatg ggagatgaaa tatagccagc gaatatgcat 180
 actggttctg aatgaaagga attaaacttt cagtcaagaa acagtctgca tgccgtaaat 240
 tgaatttttc ctgcaactgg aatgattggg taattctttt tgaacactgg cttttctccc 300
 caagaacact aatgaattgc taatatTTTT taaagaaaaac tggtttttta attaggttag 360
 ctccacttcc tcttattttt taatccctaa agaaaactgt taaaaggga tggatctatc 420
 acgccttttc ttttaaaacc acctttttta aaaaggattt ttccaacccc caatttgctc 480
 ttatttttaa attttgaacg ccaaaaagaag ggaaataaaa atttttccct taattttacc 540
 ccctta 546

<210> 182
 <211> 333
 <212> DNA
 <213> Homo sapiens

<400> 182
 ggccactctg actgggtctg ctaattcaca tgctctttgt gacatacggc tctaagaggc 60
 agaggctgga agagaagtat gtgggttggt ggatcaagat acccaagttt cagtcttgac 120
 actgctatta cttagtcagg tgaccactgt aacttcatct tgattgagcc tcagatgtct 180
 cacctgcaaa atggagtttg aaatttgcta tggttgggtg tcacacggat taaatgaaat 240
 aatgcctgtt aagcgcctat ccagcactta ataagatggc cactgcatca taatgctttg 300
 ggcacaagta acacaacatc caacccaaaag ggg 333

<210> 183
 <211> 393
 <212> DNA

<213> Homo sapiens

<400> 183

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ctgaatttct tgggctttat gtggcagtgt ggtaaaaata tatgatcaga tttcactgtt 60
aagaaaattc tttcagcaat acatgtagag tcaagtttct tgcattgata actgaacatg 120
tgggttatga gatttttaaaa aatgtctcgt gacaaacttt acggaaatgc aacaatctgg 180
acatctagtt ttgtctgaga gtggcgtgga tatgaagaac tgtgctgttg gtgctgatgc 240
cacactaagt tttggcagtc acactccttg ttcttcatat ttgaggagat gggatgggta 300
ggaggcctgt tggctttatt ttattacgtg ccaccatcta gaatacagat tcttggatat 360
ttcatcttca caaaggtgaa gctgcaaact cag 393
```

<210> 184

<211> 700

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 74, 503, 629, 656

<223> n = A,T,C or G

<400> 184

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ccaggscawt gaggaaggr gaaagaatwt arrggstwt caaataggaa aaraggaagt 60
ccaaattggg cccntgttkg ccagataacc atgattgkkg atttagaaam ccccatgwtg 120
tcagcccaaa atctccttaa gctgattaag camcttcagt aaaktctcag gataaaaaat 180
caatgtgcaa aawtcacaag crtccctatm cgamcaatam cagmcaaaca gagccaawtc 240
atgagtgrac tcttattcac aattgctagt aagagaagaa aatmcctagg aatacaactt 300
mcaagggatg tgaaggwtct cttcaaagaa gaactacaar ccrctgctca aggaaataag 360
agaggmcmca agtaaattggg aaaagcattc tatgctcatg gataggaaga atcaatcccg 420
tgaaaatggk gatactgccc aaaataattt atagattcaa tgctatcccc atcaagctac 480
cattgacttt cttcmcgaa ttnggaaaaa tctactttac acttyatagg graccaaaaa 540
agaagccwt gtagccaaga caatcctagg caaaaaagac caamcctgga ggcatcacag 600
tmcytgactt cmaactatwc taccaaggny tmcrgkgmcc aaaacagcac ggkacntggg 660
mccaaaccrg acwtwtwgac cmmcagacac agaacmgagg 700
```

<210> 185

<211> 192

<212> DNA

<213> Homo sapiens

<400> 185

```
ccagyctttc ttttaagtaa gcgctttttc aagctcattg tagctacaaa gtcaataaat 60
tgggtctttg tatttttacc tgaaaagggt gttaaagggt aaaatgacaa actcaaattc 120
aaagggattg gaggatttgg tgtttatgat ttctcagaac aacaatctag agaccaccag 180
ggtgggtttc ag 192
```

<210> 186

<211> 688

<212> DNA

<213> Homo sapiens

<400> 186

```
gtgctggaat tcgcccttag cgtggctcgcg gccagagggtg gatattttctt ctggatagat 60
ttcagatag tagttccctc aaataagatt atatgggttt gcatttttcaa gccagagttg 120
```

```

tatacttcct gctcttttatt taaataaaaa aacttgaaaa tctgttctgc ccagtattgt 180
aagcgctcag gtacaaatat gaatgaaaca atctctgcct aagtaacaca agtataggga 240
caagattctc agtaaaattc tcacgtgaaa tttgtaactc actagacact atcaggagat 300
caataattat gtaattaaaa aaaataatta cctgccaaac tgggttcttc tttggcactt 360
ctgcttggtt ttaagacaat tctcacatag aagcttatta ttccccatta gtcattccat 420
agatgtaaaa ctggttagaaa caggacttga attgaacatt ctttacaagt aagttatata 480
gcttctgaaa aaagggttgg aaaaagcatt tttggggact ataagaacct tcaaagtctt 540
tcccctctta acaaacctta aaattatttt gaaaataatt taagggggct gattttctct 600
tgtcaaaatc ttgaacccca cttaccagggt ggttggtcaa accaaagttc aaaaaaagc 660
ttctggcctt tcctttatcc cacttgca 688

```

<210> 187

<211> 779

<212> DNA

<213> Homo sapiens

<400> 187

```

gcaaaaaaca gatacatttt cagtgtttta aaatgaacaa gtatggaaag gcttatacag 60
taactgaaaa gtctcctttg ggaagccaag gtgggaggat tgcttgaggt caggagtcca 120
agaccagccc aagcaacatg gcgagacccc atctctacaa aaaattaaaa aatcagccag 180
gcatggcgga catacttgta gtagtaacta catgggaggc tgaggcgga ggatcacttg 240
agtccgagag tttgaggctg cagtgagcgc caacgcgcgc tgtactccag cctgggcaac 300
agagcaagat gctgctctaa aagaaatttt cttttaaaga aaaaagtctc cctcatagcc 360
tggtctacaa aagtcttatt tcttcccaca aaaagcctct ggtacctggt gttagtctt 420
ggggtggaag attactttta aaaatagaac tattttttta gtatatcttt tagggaactt 480
tagttcccga agcttttaga aatgggatct tgaaaacaaa agggatttca atacctatga 540
caatgcttaa agaattattg gggcatttat ttttcaatgg aggggccaca aatctttgga 600
aacccttggc caattaccag aagccacttt aatttttgac cgaaaatgtt tttaaaaaatt 660
ggcttttgga aaaactgtct ctttcccca aaatgaaaac cttgaaaaaa aggggaattt 720
ttaaggttgc cccctcatta aattttaacc cctctgaaag aaaaccctct tgtgacagg 779

```

<210> 188

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 307

<223> n = A,T,C or G

<400> 188

```

ggcgamgtct ggyccaccatc atgcccttta atcaactcac acctgtttta agagtgtttc 60
tgatttgacc ttcacccctt agtttactgg cgttaaaaaa agtctcagca attttcatta 120
tttctcgtgg gtctcattat caaaccttta cttatttcgg catatttcct ctgggcttct 180
tctagtttct gccttacaag caatgctggt ctgtaaattt attgaaacct ctggaacatt 240
tcacctttag agatggagga tggaaggatt ggyaccagaa gagggctaag atacgttytc 300
tgtcttngag ctgaaagcac agyctactct ccttcgtttt gycgatgaga aaagttgagg 360
ccagaaggga ggtgacatgt ttagagtcac ccag 394

```

<210> 189

<211> 681

<212> DNA

<213> Homo sapiens

<400> 189

```

aagttctgac tttggtctat aaaacagggg tattggctgt ggctgcactc aatatctaaa 60
aagttattag gaagtgccctc gttattgtca ttaaagatat ctaaatatgg tagaccaaag 120
gttggtgaga aacacatatt atggactgag ttctgtttct tctgctgtgg cgcacctaa 180
ctcaagcctt ccttctctcc ctccccttct ggccggcatg gtatctgagc tcacagacag 240
acaaggcatg ttagaatcat cagatcatga gcaccgtgct gggatttagc cctctccaaa 300
gtcaattctt acagtccata ctttgcttaa atcctcagtt gttgaggtct gctctgctgt 360
cagtaatccc agctataaat ttcccccaaa tgtggggcct agataaagta gaaggtggat 420
ggactcagct tattttcatg ggatgacagg aactggaaa agaaaaggga ttgaaaataa 480
aaagttattc cagaatagca ttaacctct tactgttcaa gaattaagaa agcctactta 540
gaaatgaggg ccttgagaat gatacccaaa tattggtctt tctacaaaa aatggccttt 600
ccaaatatct gctttcctgt tcccccaatt gctttttaag tagaattaag ttacctaaaa 660
ctttacctga aggggtggtt t

```

<210> 190

<211> 839

<212> DNA

<213> Homo sapiens

<400> 190

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caaatacatg atttccattg gcatagactc ttctatagtc tctcaggcac accttatgac 60
taataagaac actgtcttct agatataagc caagtttttag gagttatctt tgtagtttct 120
gtgttgagac tatgggtctt ccctgtgcaa agacttgatt agcaaatact atttgaaacg 180
atcccaaatt catagtgcag ttgaccaccc ttctgatcaa ggggatctct gtatatccca 240
tgaaagcttc ataggtctca cctagatta agtgcttcac ttctcaagac agtgaacaga 300
tggaagactt ttgtagttaa cattatacaa ctgtgccctg tgtgttttat tatacaacca 360
gagaactgag gcactggctt tacctgtcag ctacgccagg ggtgtgacgt catctttctg 420
acttgatcac acatgccaca ttgcttaata tttcaagctt agactgaaat aatcctgtgg 480
taaaaaatth ttggggggct ggggaggtaa agaacaaggg ggggaacttt ggaatattht 540
tattcattaa tcatatttcc cgaattgtat tttattttga aatgaccata agggacttaa 600
atacgtattg tggttaaatt aaatggaccc aaatggaggt aagtaaacct aatgggacaa 660
atgaataaaa ggtttatgac tgggagcatt taccatgaa cctccttaga agctatttaa 720
cctttctttt ggaaagccct gaaggctggg aacttaaat ttaaagacag tacctatttc 780
cagaatcgct tccaaatggc catgttttaa agggccaaca ttttgggatg gcctgccc 839

```

<210> 191

<211> 697

<212> DNA

<213> Homo sapiens

<400> 191

```

ccatcctgaa tactgatttt ctaatggaac tctattcaat ggcgattgta aaaccctgag 60
gctccgttac tattatggag catactttca tctcattctc ggctattggg caatatgtat 120
ctcataagat tttatcacat ttcacagatg aactgttaat tgattccatg ggtacgatta 180
ggcgagatcc aagctggagc tgcagctctg agtcccataa attctttgtg cttctgtaaa 240
gaataaatct gtttttaatg caaattaaaa ctactggcag ggaatttttg ctcccagtta 300
ttaaagact ggaaatgtgt aagtggagaa aggcaataac tgcagtaatc tcttaccgga 360
ctctattata attccaaaca tacataatgg tgagaaaaac cgggaaggga agaattgtggc 420
aatgtccact ctttgcccca aacataaacc ttaatttoca tggcgggccc aaacactggt 480
aaaaaccaa atggtaccct ctatagcatg caacttttat ttactccaa acgaaaaatt 540
atthtgacta tggcttgga aatccattag tagaagaagt tttataacct ataggaacct 600
ggccatttca tttctaccaa atcacaggaa ttttagaatg ggcaaggaa ttacaggaag 660
acttgcccaa ttatcttttt ttgggggact aaaccaa

```

<210> 192
 <211> 687
 <212> DNA
 <213> Homo sapiens

<400> 192
 ctggttacta tagcttttgta gtataattta aagtcaggta atgtgattct tccagttttg 60
 ttattttctgc ttaggatagc tttggctatt ctggatcggt tgtggttcca tataaatttt 120
 aggatagttt tttgctattt ctgtgaagag tgtcattggg actttgatag ggattgcatt 180
 gaatctgaag attgcttttg gttagtatgaa cattttaaca atattgattc ttccgattaa 240
 tgaacatgga atgtttttcc tttatttggc gctctcttta atttccttca tcagtgggtt 300
 ataggtttca ttatagagat ctttccttct tttgggtaat tcctacgtat ttaatttatg 360
 tatcgctatt gctaaatgga atgacttttt aaatttcttt ttcacattgc tcctgggtggc 420
 atattaaaag ctactgatgg atgggtgattt tggattctgc cactttactg gaattgggtg 480
 atcagttcta atcgttttct tatgcacccc ttacgggtt ctacatgtaa gaatatatca 540
 ccttcaaaaca cggataattt gacttcttcc ccatccaatt gggaggccct ttatatcttc 600
 tcttggcctg aaggctctac ttaaaacttc ttatcccttt gttggaataa cagtggggagc 660
 aaatggacat cccttgtcat ggtccca 687

<210> 193
 <211> 493
 <212> DNA
 <213> Homo sapiens

<400> 193
 ctgctaaaaat gatgttgcta aagcattcct ttttcttttg attaaacttc atgtttacaa 60
 aaaaattaat tctagcagaa taacgaatgg ttttgttttc tagttctctg ctgaatgaac 120
 agttttgcca attatcttca tagagtagtg atataatgaa tgcaacctca aatgcaaacc 180
 aaccaattca cagtccatac cccaatcact tccttcatca gcctcaaaaa tcgctaagtg 240
 aaccagtaga atggtttttg agcagtaata ggaaagcaaa tagaaagtca agggggactt 300
 tcaacgccaa caagaccaat tcagatcctg atctgactgg tttctaatac aatctctttc 360
 cagagtaatg gagcatgagt ctgccacaca gaactttaga gagagtcctt tatttcaaag 420
 actgtaaagt tggaagaatt cattcatctg caaagtcaaa tgtcaaaagt tgtgcttccc 480
 actcctcatc agg 493

<210> 194
 <211> 424
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 12, 17, 30, 179, 187, 265
 <223> n = A,T,C or G

<400> 194
 cyagggcant tnagcangas aaggaaatan mggggattca attaggggaac wraggakarw 60
 caagttgtcc stgtmtgcag atgmsgtgat tgtatatota gamcacccca ttgtctcagc 120
 ccaaaatctc cytaagttga taagcawctt cagcarmgtc tcasgatscr acmtcwatns 180
 gcraaantca cmwgcattct tatacaccaa tawcagacaa acagagagcc aaatcatgag 240
 tgaactccca ttcacaattg ctacnmaaga gaataaaata cctaggaatc caacatacaa 300
 gggatgtgaa ggacctcttc aaggagaact acmaaccact gctcaaggaa ataaaagagg 360
 atmcaamcaa atggaagaac attccatgct catgggtagg aagaatcaat atccgkgaag 420

atgg

424

<210> 195

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12, 29, 35, 36, 38, 42

<223> n = A,T,C or G

<400> 195

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tgaacaccct tnggaaggaa cctgctcgna tgtannanaa anggaccgga cagtctgcta 60
aaatcgccct ctttagacgc ggcgcgccgg ggcagagttt ttctctgggtg ctttgacctg 120
tatttggttt aatgggtttg tctaatactc ttcaatcaat aaaattgtgc gtatttaact 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 229
```

<210> 196

<211> 557

<212> DNA

<213> Homo sapiens

<400> 196

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gcggtggctc atgcctgtaa tcccaccact ttgggaggct gaggtgggca gatcacttca 60
agttgagagt ttgagaccag cctgggcaac ataacaaagt gagatcttat ctctacaaaa 120
aaattaaaca aacaaaaaaaa caaatcaaca ttcatttgca gggctctttg gtcttcttaa 180
agaacaaaca tatgaaataa ataagctgat tcttaaagat aacaaatata atgagctttc 240
tcaactgtaa aagcatctct aagttgttct atcaatgcat atccactcca tgaactaacc 300
tgaagaaagt gttgaccatt ctaccaatt aactgtaaac taagattgct ttaatgggtt 360
gcctaaattt gactaccttt aaatttttgc tttttatoca aattcattct cccttcttca 420
aattaaatag ttttgtaga aatcggataa gcaagatgta ctttttagaa agggcaatag 480
aatcctacaa catgctagaa tttgaaatgt ttttttaaat cagtmmtttc tctatgctag 540
taactaagaa aattata 557
```

<210> 197

<211> 624

<212> DNA

<213> Homo sapiens

<400> 197

```
ttttactacc tatattttaa atgatccctg acgcccctca agacaaatat attaatTTTT 60
ttactttgtg ggatagagat cagaaaaaga gtagagatga aaatactgga gaaacaatgc 120
aggagatatt tatgaggtga gaatgtcaag aaacttgtaa agggagaata ctataatgac 180
ccctgaagag agagcttttag accagttgag tattagaggt tgccacgtgg ctattcatcc 240
actaataaat acaagaaatt actaaaatgg aagccactgg aaatatgttt tgaggaaggt 300
gagaatgtgg acctattata aatgggtgaa tatgatttct ttctcattaa gttcataaat 360
aactttcaga catgtaacag tttatgaagt gtgcgtagt catttagtat aagttttata 420
cacaaaagtg tttttactaa gactgtcaca ggttcttttg tgaatcttgt ttgtttttcc 480
tcattgtaaa tactgcaata gaacatttgt gtcttaacat aaggcaataa atgaccttaa 540
gaaccttcac ttttatatag aaagtggagg aaaagtgggc agagtaattt gttgattata 600
gataaaagct cttgtagaaa ttgg 624
```

<210> 198

<211> 175
 <212> DNA
 <213> Homo sapiens

<400> 198
 tttttttttt tttttttttt ctaacactta tgcatttatt ttcattgtgta agaagaaaaa 60
 cgtaactagc acgtgaacat gactgcatgg atacacggct cagcacgagg cttaaagtcag 120
 aagtgagtga aagcaaaacc gcatgttgat ttaagtgaat taacagaaca gaaaaa 175

<210> 199
 <211> 871
 <212> DNA
 <213> Homo sapiens

<400> 199
 ctggtgatca atgatgagct cccaagagta accagcctct atatagtcag catcactggg 60
 ttctcaggaa aagcatcacc attgttcacg ttgctgcaaa atgtatgcac aagtatcttt 120
 ttattttttta aaaagccctg acatttttatg actgctgctt ttctaagata ttttcaaata 180
 tacagtccat acggttcaga cacaatggac tggggataga gacggctata gtgccgataa 240
 tggagaaact agccagagct tcagatatat gttttccagg acatctcaat aattgggtac 300
 acctcacaat atgtgagact tgacgtcgag tggcacggca tactctggcg caggcacttg 360
 ataaagactg tgtttgcaaa tacttagcct gcacttcaag ataccaggca tctaagcacg 420
 tcccagatgg tgacagttaa tcttcaaaaa accctatgtg gaagtattat cattgtcctc 480
 attttacaga tgaggaaaaa gagacacagg gatgtcaata tcttcctcaa ggtcacacag 540
 caagtaagtg atggaacagt ggctcagcca tgaagctatt gctgttaacc actaggttga 600
 tttgccttca ttaatttctt cctaaaaactg cacatttccc gttagtccct ctttttgggc 660
 tgtcgtttga ctcttggtga ctgcttagag gaagattcat tctattattt tctaacttag 720
 taaatatgtg caactccttg gggacatgac caggcaaaaag ctggatacag aaatgtatgc 780
 ccaaacacca tccaagtta cccctaacag gtcttttctg gacctgttt gtaagggggg 840
 tatatttgga aaaattttta aaattttctg g 871

<210> 200
 <211> 737
 <212> DNA
 <213> Homo sapiens

<400> 200
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 ctgctattgc tgaactatcc tttgtcttga gcgataaaaag agaagtaaaa tactaaagaa 120
 ctgaactgtc catttctgga ccatgagtaa agatgctggc tgtcaaactt cctgttcata 180
 cattagttaa tttatagagt gtactctcta tgtaaggat tgactgataa tgttactttg 240
 acttcagata gcttgaggt taatggagga agaagacaaa catgcaaata actaggtcaa 300
 tgaggcatcc tttgtgttcc attggaagct aggctgcttt gtaaccttgt taatttctgt 360
 ggttttggag tgcattcatt agcaaataca ccccttggtc ttatccattc tctgcttttt 420
 tctttatttg gcatttgatg acattttttc atgtggggaa attgagtcag gtgaggtgga 480
 aagaaaataa ggacacgaca cttaaattctt tgatgttttt ccttaaaaaa ttgtttttca 540
 agtgctccat aaagggttgt gaagttttta gagccatagg acttgatta ttgtgaaaga 600
 gtgtctctag ggggccaggt taaaccattt caaggactct ccttctctca tctcccttgt 660
 tccaccagag gtggcgaccc ccaaaaagca caaagcctcc ctttcttcat gggaagggtg 720
 aggaacggaa ggaacc 737

<210> 201
 <211> 493
 <212> DNA

<213> Homo sapiens

<400> 201

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tctagaaatg cagcttttat ttattacccc atttctttca agtccttga aaataacata 60
ttaagggtag aagaaattaa cacatgatgg aaaagtcatt gtgacgcaa tgaatttcat 120
tgagtataaa ctcatctact tcaaatttat ttataaacac aacctaaagat actcaagata 180
attattttaat ggtagctct taagttgaat tgggtctacat aatgcgtggg aagaaaacca 240
gatttttagc cttcttgcca aatccagacc tctgggtgat ttttcttga cagaagatgc 300
aagttatttt ccaatttcac aattaaatgt atttaacatg aacattattt tgctttaaaa 360
actataaaca ttgtaggaga attatagcca gtcttcagtt ataaccactc caccctcctc 420
actttctctc tctctctctc tttttttttt gctatgggat ttaatgggaa aaatatgtaa 480
aaactgtcac taa 493
```

<210> 202

<211> 283

<212> DNA

<213> Homo sapiens

<400> 202

```
cctttttatc tcagtacac cgtccgggga cgcagggtgt ggtgactcaa ggctagcctc 60
aaagggcagc cccacctcct catcctggac cacagagacc acctgcttgg cgcgccgtcg 120
cttttccgag aggggtgctg actccggggt gctggggctg gggctgccgc ccccgccgct 180
gttgctgtac tctcgcgcc agtcgatggg ggctgccctc ggacagcagg tgcaggttgg 240
gggcactgtt acgcaagacc atgctgcccc gagaggtaga tct 283
```

<210> 203

<211> 713

<212> DNA

<213> Homo sapiens

<400> 203

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ctgcttttgc gcaaggtgcc actggacgag cgcctcgtct tctcggggaa cctcttccag 60
caccaggagg acagcaagaa gtggagaaac cgttcagcc tcgtgcccc caactacggg 120
ctggtgctct acgaaaacaa agcggcctat gagcggcagg tcccaccacg agccgtcatc 180
aacagtgcag gctacaaaat cctcacgtcc gtggaccaat acctggagct cattggcaac 240
tccttaccag ggaccacggc aaagtcgggc agtgccccca tctcaagtg cccacacag 300
ttcccgctca tctctggca tcttatgcg cgtcactact acttctgcat gatgacagaa 360
gccgagcagg acaagtggca ggctgtgctg caggactgca tccggcactg caacaatgga 420
atccctgagg actccaaggt agagggccct gcgttcacag atgccatccg catgtaccga 480
cagtccaagg agctgtacgg cacctgggag atgctgtgtg ggaacgaggt gcagatcctg 540
agcaacctgg tgatggagga gctgggccct gagctgaagg cagagctcgg cccgcggctg 600
aaggggaaac ccgaggagc ggcaccgcag gtggatccag atcttcggac gccgtgtacc 660
acatggtgta cgagcaggcc aaaggcgcgc cttcgaagga gggggctgtc caa 713
```

<210> 204

<211> 275

<212> DNA

<213> Homo sapiens

<400> 204

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gtagacaagt acagcagatc cagacaccag atctagctag gctaaatgta cagtatctaa 60
cttgatctga actgaacctg tattccttga tgatgcctaa aactacatcc atagaattct 120
ggatgaacctg taatacagtt ctgaaagtac agttttatat aataagatgc tgatctcttt 180
attctttcaa gtaagagtgc tagagaacaa attgtgttac ttgccttggg atttattgaa 240
```


cgtctggaaa atgctgtcct cctagatcca aacag

275

<210> 205

<211> 694

<212> DNA

<213> Homo sapiens

<400> 205

```
ctgttcctgt acatttaact gaaaaaaaaaag taacttaaaa taatataaaa atagcactca 60
tgtatgtcct acagttatag gtgaaatttg atattgtttg tcttacatag catacctata 120
gacagcttaa gtaaagtac gtgtaagagg gttatgttta ttgatgaact cttgtagttg 180
cttaccagct ctgttagtat agttaaattg atctcagtag cttcaagtat ttataaaatg 240
gttgaagtcc aaatacatgt gataattaca atacactttg aattaatgga ggggtggagg 300
ctagttgaaa tgcattttat ttaccaagg agtatgttaa aatgatagtt ataaatgttg 360
gaagtttaaa gcaagatact cagtttagtt ctttacaat cataagaaga acaaaattag 420
atgttgacat tgctatttta ggctgtgtgt ttccatatg cttcttgctt tccctgtcac 480
aggtgggtggc agcaatattg gtgtgattga ggttatgtcg gcaccactcg cacacaggcg 540
cacaatgggtg ttagctgggc agaaagagtg gcatctctgg ctaccgggct gggggcgacc 600
tttaccatag gatgaagtaa ccttgcatc ggctgcaagg tgtactgtac cgtacacagg 660
tgctgggtcg atggccactt tctgcttttc tttc 694
```

<210> 206

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12

<223> n = A,T,C or G

<400> 206

```
tttttttttg gnaaaaacag ggtttcatca tgtttgccag gctagtctca aactgctgac 60
ctcaggggat ttgccgcct caccatttc aactttcgta agtcagtatt taccatctaa 120
ctcagtgtcc caaaatttaa aatttccttg cactttacag caaaaatata tattggggct 180
ctactgaagc aatatatata tgtcaaaact aaaaatcaga aaagcaaaag ggtccattca 240
acatatagca gcttatatit aaatatgtac aggtatgtat gttttcacag ttagatcttt 300
aaaaaaattt atatttgata tgttcaaaaa tacttctatt ggctataaat aatattttta 360
aagctcaact gatcaaaatg cattccaaga acatatcaaa ttaaataaat cttctacgtc 420
tttaaaaaca gataattgaa gtcagtaaa cttgaggttt gtgttaagtg tattctgtca 480
gtccctacta ctagggaagg cagaatcttc taaatacgat acgaaagaaa ctcccaaagc 540
ttggaaggaa tcggcagctc ctgaactttt tggggggggc atccctcttc gggattgaca 600
tgcgacataa atgttgcaag ctaagggacc cccccgggg gagtgggccc caaaaaaac 660
cacaccttcc ccgtcaatgg tggtecccc accaacctta aaaa 704
```

<210> 207

<211> 225

<212> DNA

<213> Homo sapiens

<400> 207

```
ccattttaac tgtactgcc aatagaattct ggaattgtgg aaaattgtat cattgaagtt 60
cagtaggatg tgtggcctaa aaatttatca ggaccacaaa aaagaaaaca aaaatatttg 120
gtactgaggt tcattgccag ggcaggaggt atttccagaa aatactcatg cctgtgttct 180
```

gttccttgct ttcccaaata ctgcatgtga ctttcctaag cggca

225

<210> 208

<211> 678

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 382, 391

<223> n = A,T,C or G

<400> 208

```
cctatatcta tcaaaaaaaaa tccagttcct aactaataat ctcccaaaaa gaaagcacca 60
ggaccagatg atataaatgg caaatttttt caatcattta aggacaaaat aataccaatt 120
ctgtatcatt tcttccagaa cacttcctaa ctcatcgtat gaggccagca tcaactctaat 180
agcaaaacca gataaagcca ttacaagaga gagtgacaga ccaatgtggt tttattgagg 240
atgcaaacaa aatttaacat aatatttaat agtgaaaaac tggatgctct ttccctaagt 300
tagagattaa ggaaagaatg tccccttcac tactcccata caacacctta ctgaaaattc 360
tagctagctt tataaaataa anaaaaacca naaaataaaa taaaagggtg acagactgga 420
agatacagtg aaggaggaag aaataaaatt ttctttgctc ataacatgat tcttctatgt 480
ggaaatcaca gagatttgaa catttttttt ttttgagaca gtttttgctc ttgttgccca 540
ggttgagtg taatggcgcg atctcggtct actgcaacct tcacctcccg aattcaaggt 600
gattctcctg ccctcagcct tcccgagta agcttgggga ttaacagggc atggcacccc 660
ccatgcccc agctaaat
```

678

<210> 209

<211> 720

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 366, 399, 406

<223> n = A,T,C or G

<400> 209

```
attattttga accctagcat ttagaaatga aaaacttttt ataacaatca aatacatgat 60
aaagtatgca aagagtagga aattattctg atgacatatg gagggttaca aaggagaaaa 120
ctttttgcta cctctgataa agaatagact aaattctcca agaccaatct gactgggtgc 180
ataataaaaag gaggtacaca cggaagcaca agggatgtgt gcctctggag gaaagggtcag 240
gtgaggactc agtgagaaga caagccaagg agccaggctc tggaagaagt caaccctgtt 300
gacaccttga tcttgacta accctgtgga caccttgatc ttggactttt agcttccaga 360
actgnagaa aataaatttt tcttgtttaa gccaccana gtgtantgtt ttgttatggc 420
agccctaaca aattaaaatt atattttaac agagaatata aaattctaata ataacatttt 480
acagtaaagc attcatggctc ttttttttct tattaataaa tccatcaaaa cagaaagttt 540
tgcaaaattt taacacattt ctctaccact actgtttcta ctctcttaaa actactccgc 600
aaatataaaa atagaaggcc aaaatgcatc attaaaacga tgtttgggga ctaatggcct 660
taaaattcta ttacacttgg aaatatacaa atattcaaag attatctatt gatcacctca 720
```

720

<210> 210

<211> 277

<212> DNA

<213> Homo sapiens

<400> 210

```
tccatgtatt tttatacaga atggaacaat atgtatgtat gcaatykta cattccacca 60
tgaaataaaa cagtataatg aaaataacaa tagattcaaa caatgatatg ctattttttt 120
ttacctatga cattggcaag gtcttcttaa aaaatctgcg aataaccgat gttggagaga 180
tcatggggaa atagccactc aaatgttact catgagagtg tacatatgtg taacttcact 240
tggagggcaa tttggtgata catttaaaaa gttttgg 277
```

<210> 211

<211> 715

<212> DNA

<213> Homo sapiens

<400> 211

```
gtggtagaaa tactaatttt gcaattacag aaaaaaacia atgccattca catgggttyct 60
aacaaaaagt gtctgaccac cccaccccc caccctcaa aaagccctta aataaagagg 120
aagatcaaaa gaaaacaaaa taattccoga gtttcacctc atacatacaa tatagcacag 180
gaagtggcaa agtttaaaat aatgccttta ctggttaggac tagtatgctg tcaaaagcca 240
caatcctttt gttttagtga gttgattttc aatagaaaaa tacaatgaa catgtgttta 300
agttccaaca tggattgagc acctctgaat ttagtatcaa atgattaatt ttatttttca 360
gatgtcaaat cttagtataa aattttccat tattttaaac ttcacttgaa tctttaaaaa 420
agctgtctaa attgtactat atgagttcag tttaatcttc tgtaaaatgc taacaaattg 480
aactgtcagc agtcttttaa aaaaaaatgg gggctgggtt atttctagaa gaactctcat 540
taagctttga aaatcagaaa tcagagacaa ataacttcag atatagacta gctccacaag 600
caaattttata caattatctg taacagtcta tacatatatg tgtatatata tataccgtaa 660
ccactttcat aggtaaaaaa tattaacttc atgtcacact atgacagaa gtata 715
```

<210> 212

<211> 717

<212> DNA

<213> Homo sapiens

<400> 212

```
agcctcccc aatgccttaa aaggtcacag tagatctcag ctctgaacag aaactcaact 60
gaaactcttc ccacaacca gcagtagata tattaataacc tacaattttc agggatacaa 120
ccaatattta attcttttga gggttttgtg ttaatacaa ggacacaaac acacgtataa 180
aatgacgatg tcaatactga ttaaacagaa caacaaaata agaagctcaa attatcatca 240
gctattgtgt atatctgaaa taacaataat gcacttgatt ctgaaagaat gattagagtt 300
cctactctga aaatctaatt gtcttgatgt ggcgaagtga gaagaaagga tgatttttct 360
aatgaaaagc atgtatacgg gtagcccttt gcgagattct gtcaaaaccc tgaattttgc 420
attagctgtt ttaccaccca aacgttttta cccgaggatg tgcagcaatg ggaactctca 480
tacactgctt gtgggaatat aaatcagtat aaccactttg gaaaaccatt taacattgtc 540
aactacagct ctacacacaa gtgtataaac caccatttcc actccagggt atacacccta 600
aaaatatgaa gtgcccattg ctacccaaaa ggccgcctaa aaggaatgct tttgagaagg 660
gttaaccttg ttaattagtg gcaaaactgg gaaaacaacc cccaaatggt cccatcc 717
```

<210> 213

<211> 599

<212> DNA

<213> Homo sapiens

<400> 213

```
cctgttttgg cgaggcagga ggggaagcggg atgggagtgg tggttaggcc aagggtagtt 60
```

```

caaagcgatt cagcaggatg atgaccacag gagtgcctga gccgggcctt tcagcccccg 120
tgtggatgat gaccggccat ccaggacatg cgagggcttg ggacagtga cagccagtgc 180
cacacaagga aggaccgatt aaatgacaca gttaaaggaa tttggcctag ggagtgaag 240
ccagaaaggt ttggtctttt tatatatgta acattggaaa aaaggaacat ctctgttcc 300
ctgtattaag ttttgacttt agctcagcaa atgcagtgtt tgtggcagta aatatactct 360
gataacaatg ttctttccca ggaattttaga gttttatgat ggttattgaa aatgtttaca 420
tgacaggctg tcaataatat tttttgcctc taaaaataaa acatacataa agtgtacgga 480
ttttaagtat gcaactcact gaacttttca taccgtaata caccacccta gtaaccctcc 540
cccagttcaa gatgtagact gtttccaata acccctcctc ctgttcctta atagcccc 599

```

<210> 214

<211> 789

<212> DNA

<213> Homo sapiens

<400> 214

```

ccttatgaca aaccttgcta tgccaaggat atgcttcact atcttcatct atcaaaacac 60
tatgcatcat agatatctaa ttttttcctc tcttgcatga agtctttcct gatttccctc 120
tgctgaaatt tctctcttca aatgatgtgt ttccatagta ctttgtccct tttcaaagat 180
atatctcaca tcgcataattt taccacagtt agtttcattt ctttaactctc aactagatt 240
acaaagtcaa tatagacaaa gaaatgttca accttatata acctcctctg cctatgctgg 300
taaattgcac ctactatgtg ttcaataaga gcttgtcttt ttcaatatac aaaactttgt 360
aaagattaaa gacctttag aaagtcaaga ggaagatagc aatttcactt ctaagaactt 420
accctaagga aacattcatg aagagatata aggggttatg tgcattggatg ttcattatca 480
tattattctt cattatgaag attatgatgg taataatgaa aatgattatc ttgtattggg 540
ccttatttga agtcaagcat tgagaatgta ctttatctgc attatctcac tgagtctctg 600
tagcagccct ataaggtaca gactgttata taagcttaaa aaaataaagt taatgtccaa 660
ggtcaaacaa ctagtaaaag aagggggcta ggaaatttgg aaccccaaaa ggggcaacct 720
ctcaagggct atgaatcctt accattatta taaggaagct tggcccatgg tggcccaaaa 780
aaaaccggg                                     789

```

<210> 215

<211> 765

<212> DNA

<213> Homo sapiens

<400> 215

```

ggatgtctga gcaggagaga gaccatgtga aggatggact gaatggagac ttgtatcaaa 60
gagtctgagt atcaaagact tgtattagag agggttgttg tagtaatcta gtcagggtat 120
gagaaatggg ttgtattaga gtgtcaggag tagtcgtggc aaaaatatat agatcaggat 180
gagggatggg cctcatctca caccctgact ccagtcaatg gcagtggctc cctggagtac 240
actactatag gaaggatttt gttaaagttt gtctggcctc agtggagggg gaggtagggg 300
aggagttcta tgaacagtta gtggtgtctg ccatggttga aacaatggag aagggggaca 360
ccttttctgt gcagatgttg cttctggtag atataatcca caatgtaatg ggagaagtac 420
taagaatcag taaattatgg aggggtgtaa agactactga tatttaagcc tgcggaccgg 480
acttagagaa atgatagtta aaggagaaat atccagcaa caaagatatg acattgaagt 540
ttgggactgc gattagtacc agagatttgg attggagggt atttgtatag aatggatagg 600
tgattttact cttgcaattt ggattgaggg gtggggaaaa ccagaaaggg gctggggggg 660
aaattagtag aaggtcacct tgaattcatt gtggtccata tcaatgctga aactgattgg 720
ggaacttttt actcttgagt ccctttgtaa gggaacccca gaaag                                     765

```

<210> 216

<211> 780

<212> DNA

<213> Homo sapiens

<400> 216

```
cctttttctg tggcaaatgg aggccttttca ctgcctgtag agacaataga gtaagcatag 60
ttaaggggtg ggtcagaaca tgtaagata acttactgta tatgtattcc cttgtatttt 120
gttaaagctg gaacatttga tttttttcca tttatttatg aaaaaatatg aacctatttt 180
catttgtaga aggtaattgt tttttaaaagc aagtcacctt aggggtggctt taattgtata 240
agtcaagcac atgtaataaa ttcaaaacct gcagttaaca ggatattaga catcaatcct 300
ggtaaccaaa tattaaagat tctcttttaa aaagactgaa catgtttaca gggttgaatt 360
aggctaaaag gtcttgcaat ggcttttcat ggcccttcaa attggaatgg aactactgta 420
ctttgccatt tttctataaa tcagtacttt ttttttaatt ttgatataca ttgtgtgaaa 480
aaagaaaatg gctaataaac tgtattaaat cttaaacaat gtataaagat tgcacttagc 540
cagttcaaag tgtatactta ttcataatga attataacag ttatatttct gtgttttctt 600
gtaaatgttt cttttccctt aaatacagat aattcatttg tattgcttat tttattatga 660
gctacaacaa aaggacttca ggaacaagta atgtattagt atgggtcaag attgttgata 720
ggaactgtct caaaaggatg gtgggttattt taaatataaa tagctaattg gggtggtaaa 780
```

<210> 217

<211> 810

<212> DNA

<213> Homo sapiens

<400> 217

```
cttttaggca gcccggcacc ttcattccata ggcagagaga gaactgggtg ttggagactt 60
attcgagggt ataggaaggg ccctgtgaag ttgatttaac ttttgatgt cagactgtga 120
aagctcctga gaaacttggg gtaataggat cttcttttgg ggatgaaaat ggggaaggcg 180
tgaggacctg gactacttct ccctagggtc gaaaaagaga attaccctt gacaaatatg 240
atacctgcta ggtatttccc agggaaaatt agggattggc gtctttccct agcatgtgga 300
ggaattggca gacagcttcc taaggcgggg gagcgggggc ccaaggctga cactgcttgc 360
atccacgtga ccttaagtta tggcagatga ctctgaaacg gactgaggcc aatgagaaca 420
gatggatgga gcactcaggt tagacttggt ccttctccta tgctggagga gagggatggg 480
tctctagaat gttggagggt agttgagagc tcgcctcttg aatggtgaac agtgtactct 540
tctgaaaact gcatattcac tttatgtggt ttcagaatac tgggctcaat actaacataa 600
gaaagacact tcattgagaa attcttaagc ttacagaaaa cctatctctt tgcacattcc 660
acataacccc tagcaaatg caggttcttc atacttctgt cttttttcca ttggaagaat 720
tgcttaagga aaaattaatt cctatttatt ccacaaaaag gttgggcatt gctttgattt 780
taccatcatg gggaatgtgc ctttgaattt 810
```

<210> 218

<211> 817

<212> DNA

<213> Homo sapiens

<400> 218

```
ctgctccctt atggaggtct cttcattaat aattattgga tagatagaga aggtgagcct 60
gtggcttcca agtaccggct tttgtgaag gtctacatgg gaagaagagc atcatttgat 120
attcagtaga tctgccacac ccaactggct ccactctctg gaaaacagca ctactacaa 180
gcaactgtaa tagcaccag caatgaccac gctgctctct ctggctcttc cgtacaccag 240
taaattgaact caccaatgta ttgcacacat acatttcaca gtagtacaat aaagccctgt 300
atcaggagtg gtaattcaat gacttgactc tatagtgcac tgcagcttta tgtcatacca 360
acattcaaat attcaaatat cttccaatc catttggaac aaaatacacc atggctgcca 420
agacacatgt atttttcttt cttccatgga ctctaaact gctcccacaa tcagcagtg 480
tcttctctca gaaattatct taagcttctc tactcaatgg gaggtacaca cagagacctg 540
```

```

agaatatgca gaggccagaa tctctgtctg tgctagagat caactgtact ctgcccacct 600
ggggaacaca tcctctgggt aaagtactcg gaagtaaatt acattccctg gagacagata 660
cgggctttca ctgcagcctg ttagaaaaca caatgtctgt aagttacctc atagggtcaa 720
gagttttgga ttatatTTTT cataatgggg ctatggcctt tttaccctgg ttttaataca 780
gaaccacctg cagaaaggac attgaaatta aaagcca 817

```

<210> 219

<211> 661

<212> DNA

<213> Homo sapiens

<400> 219

```

ggatgctgag gcaggaggat tgagtctctg agtttcagga tacagtgagc tatgatcatg 60
ccattgcact ccagcctggg caacagagca agattctgtc tctaagaaaa ggaaaaagaa 120
aatgaataga tagtggtatt agatgttaat gacatcagtt gtttttattc tttattcttt 180
cttagaaaaca gattagtttt ctogaattaa agaactacca tttttctttt ttctacaact 240
ttcaagagct ggtgaagaaa tgatgttttag atttaataga tatagtagca gtcatatatt 300
aatagaatag aaactgagac tctaggaaaa agatagacat gagataagga gtaggcatgg 360
tagacatttc tagattattt atgaaaatgt tgtagaattc attttttttt ttggtctgac 420
ctttggcaat ggtgctgagg aagggaaagc cagcccatca ggcaaggctc tgttttctgc 480
attttatccc gtttgattct tctcgttagg attggagcaa ataatttcaa tatgttcttc 540
gctgggttta tcatagtgac ctttcattta aagggaacttt taacaattga cttaaagaac 600
actgagatgt gatattttat tgggatttga aagttgccat tgggttttac cttccttaat 660
t 661

```

<210> 220

<211> 792

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 169, 171, 172, 399, 400, 401, 402, 643, 666, 724, 727, 731, 755

<223> n = A,T,C or G

<400> 220

```

cctcttttta ttctacaaa taattttcaa gtacacacaa ttgggtaaac aaagaaacaa 60
agccaccaag aatgaaaatc agtaggaata acgaacaaga ctcacagatg tcaaacaagt 120
ctgtgggtct tgcagacttc agatgttgga attattagtc gtggcaagng nncaaaacat 180
tagctattac cattatgttt accaactagt gaagtgaact atgagaggat atattaacca 240
cagaagttaa tagaagaata gactcctgaa aatatctgga tgctacaaac taaaatatag 300
tatataatcc ttcataagat gtcagtgact tcatatttat aattacattt ttgtatatta 360
gcagtgttct agttcttact gccttatctt taagctgann nnaaataaaa ttatatattg 420
ggattcaaaa acacatagct aatgattact atgtggcagt gttacattac tttatcacat 480
atcattaaca taatctgcat gtgttcaaag agatcttcat acttctttgt agctccact 540
tctttgtcgt ctttgtagct ccacacaacat ctagaacagc acaaccgtat atggagaaaa 600
ctcagctctag tattcgttga atgactaatg gaaaatttag ttnataaaca gaactttctt 660
cattgnacaa attatcttgc agaagaataa tggccttagt ttaaaattat catatttacc 720
catntcncca ngttatttta tctcttttgg ctaanaattt tgaaaacggt accttttacc 780
ctttggcatt tt 792

```

<210> 221

<211> 759

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 245
 <223> n = A,T,C or G

<400> 221
 cttttctgct gctccgggag gtggagtggc ctggcagagg gcacatggct gccacctgct 60
 gcaaggaaaa ttctcagtga agactcctca gtatgaagga gataagcctg cacaatcagt 120
 cactgataga tgcttagtgg aaaaacttcc aattcccatt tacagctctc agagctagga 180
 ttaaaaactc ctggtcataa actcatgtga tgagaagtta tagcacgccc tcatttttcta 240
 catanccact tgcatttatg gttggctttt gaacttgcta gaagggaag aagtgcaaat 300
 gtgtcctcct tagagctact ctctccctt tgggtgggtt ccagtttgct cattgtccag 360
 atggcccagg agctgacgat caaagggaag aagtcattgt tgctcatgaga atgctttgct 420
 gcatcaggat tcagtgaagc tgttcacgc ctggagccca tgcagcctca agaggcagga 480
 tggagctcag aaacctcac tgagggttaga aagtgcagc caaagttgag ggaagccac 540
 aggagtgaag cgaagtgtc ccttttgatt tccaaagtgg gtgctgctgc ttcttccatc 600
 agccttgctt ctgaccccaa tgcgttctct gtgccttctt cttggcattt tgctgtcggg 660
 ggccaagga aaaaaattcc tgcattggcag tgggtgaaaa agatggctgc ctgctgaaac 720
 ctgatttggc ctgggtaagc cttttggagc cccggttaa 759

<210> 222
 <211> 699
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 7, 77, 81, 84, 85, 278, 289, 291, 298, 301, 368, 395,
 433, 441, 508, 569, 633, 646, 667
 <223> n = A,T,C or G

<400> 222
 ccttntnaag agttggcatt aattcttcac taaatgtagg agtagaattt atcaggtaag 60
 ccacactgac ctctggncct nttnncgccc gatgattttt aattagttga atccctttac 120
 ttgttatata tgtattcata tattctgttc cttcttgat ttacttttat gattggtgcc 180
 tattgaggta tttatttcta gtttgtggta cttcatgtgt ttaggttttc tagacagtgg 240
 acatagaaga ttcaagaagc taaatgtagg agaattgnta atgtaggana ntgaggcnac 300
 natatcatca atgaatgact tgaagtctc tctgttgtaa agaattgat taccataact 360
 gccatagnta atattgatgg tgtaagtcaa ataanaaggc aggaggaaag ggacatccat 420
 cactgaacca canatcagag nctcattgaa gcctttgaga agaattccaca aaattttaca 480
 ggataattca tttcctgcga tcaccacnag aagagaaact ggttaaacag acaggtattc 540
 cagagtccaa aaattttacat ttggtttcng aaccaaagac ctgagctccc aggccacagc 600
 aaaagggggc ttatgaattc cctggcacc agncccaaga cccaanaacc tcattctgat 660
 tgggtttngg cttgggaaac caaaaaacca atgggtggc 699

<210> 223
 <211> 598
 <212> DNA
 <213> Homo sapiens

<400> 223

```

aaaaagagaa agtttcagat ttgccattca aggcttattt atatatatgt gtgtgtatat 60
aaatacatgc acacacttgc atacatatat atttttggct gggggagtgt gagttttgcc 120
tttctaaggg agggacccgc caggctcctt tgttctgtat tctggcggag atgggtcctg 180
gccttgtgtc actggcttat ccttaaagat catctcccat cctcccagc gccatctgtg 240
tgcagcaacc agaaagggat gaacttggcc ctcttgccgg cctggacaag gtctcttctt 300
taccctttct gttgccagtc agcaacctgt aactcacatt ctcttcccag tgaatccctg 360
ggagcgcctg accctgggtg gctgttcagc ttcctgctgc tggggccagc aatttttgag 420
gatttatctt taggccaggc ttgccctcgt acttatccct gctctcccat ttctctcttg 480
tttgagagag aatgaggaag caaagagtga gaaagaatag gggctgaaga cgccactccc 540
agatggctct ttctatcctg ctcttctgtt gaaacacacg tgctgtgggc ctcaggcg 598

```

<210> 224

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 479

<223> n = A,T,C or G

<400> 224

```

aaacctttat gatgacttcc ttatgaatta ctgaacgaac actggaatgg gactcaggta 60
tcttgaggac atctctcaac tctggcctta gttccccctc tgtaaaatta ggtgccaac 120
taaagatctt acaaggctcc ttccagcgcc gccattctgt aattacatca tgtgtaactg 180
tattaaacat acacaagtga ctgccaggca tgggaatgta acttccgagt aaatgctttg 240
gtttgttcag aatacactat gaacttcttt ccaaagacgg gttgtggtaa atagtggata 300
ttttgattat aagaaataga gtttccttga agcttttagc ggagatacag caatagtgtg 360
gtgttcctac aaatatcaca gtgtattcaa acatatcttt ctatcaaaaa tcatttttgt 420
aaaagctgtg tgtttttatc caacttgtga taataaatgt tctttatctt agaacaaana 480
aaaaaaaaaa aaaaaaaaaa a
501

```

<210> 225

<211> 295

<212> DNA

<213> Homo sapiens

<400> 225

```

cctgtatagg gctcgtttcc ccacacatgc ctatttctga agaggcttct gtcttatttg 60
aaggccagcc cacaccagc tactttaaca ccagggttat ggaaaatgtc aggaacaaaa 120
aaaaaaaaaa cacatgcact cacacaatac ccaaacatca raattagaag ggcataaaac 180
agggggcctt ataggctgaa aaatatctta ratttcaraa cagaatacca atcaaatatt 240
gaaaattcct ttgttcaaaa cacaaagatg ttttgttttt aatgggagtt ttttt 295

```

<210> 226

<211> 372

<212> DNA

<213> Homo sapiens

<400> 226

```

agattcctgg cttagagcat gcgagcattg aaggaccaat agcaaaactta tcagtacttg 60
gaacagaaga acttcggcaa cgagaacact atctcaagca gaagagagat aagttgatgt 120
ccatgagaaa ggatatgagg actaaacaga taaaaaatat ggagcagaaa ggaaaaccca 180
ctggggagggt agaggaaatg acagagaaac cagaaatgac agcagaggag aagcaaacat 240

```


tactaaagag gagattgctt gcagagaaac tcaaagaaga agttattaat aagtaataat 300
 taagaacaat ttaacaaaat ggaagttcaa attgtcttaa aaataaatta tttagtcctg 360
 atgaaatgaa at 372

<210> 227

<211> 599

<212> DNA

<213> Homo sapiens

<400> 227

ggccccgctc gcgggagccg cttcggggcct tctgggcatg tctgccatat ggctccaggt 60
 ttgtttttct ccccggaact ctgacgggga gggctcccgg catctcctgg catccgggta 120
 gaggacgcgg aggatgctga gctgctggcg cactgcagca caactagaga tgtacggatg 180
 cccccatctt gatcttacag aatcagaggt acagccgcga gaaagagtca agaacagaca 240
 gagtcgcttg aggactcagg aggggtgtttg ctgcgttgac aacagactac accctcacag 300
 tttgctctgc tcttccaaca ccagtggag atgatcacat cccagggatc agtgtcgttt 360
 agggatgtga ctgtgggctt cactcaagag gaggggcagc atctggaccc tgctcagagg 420
 accctgtaca gggatgtgat gctggagaaac tacagccacc ttgtctcagt agggatttgc 480
 attcctaaac cagaagtgat tctcaagttg gagaaaggcg aggagccatg gatattagag 540
 gaaaaatttc caagccagag tcatctggaa ttaattaata ccagtagaaa ctattcaat 599

<210> 228

<211> 343

<212> DNA

<213> Homo sapiens

<400> 228

aaagtaaatt gtatgaaaaa ttcatttctt caattgcatt agccacattt tgagtattca 60
 tgtggctggg agattctgta ttagcacaaa gatatggaac atttccatca ccacagaaag 120
 ttctgtttgga cagcactgca ttagaatatt ttcatactgc tcttccctcaa ttaatttttg 180
 ttgttaaatgt tgatgtcttc attggatggg tcataatgtt ccatgaaacc gctcaagtac 240
 acaattgtat gttctttgta tcccttacca caaatatctc gctctgctca tttcttttgc 300
 agcttcctat aaagtttgtc ttcttcaaaa aaaaaaaaaa aaa 343

<210> 229

<211> 417

<212> DNA

<213> Homo sapiens

<400> 229

ctcaagctgc agtccaccgg gtatggttct ggatggttcc cccaagggag caggatatgta 60
 ggaggtgaag aaaactgaga tttcaagtat gggagagttt ttactatctc cattcctgga 120
 ttaaaagtgc tgaaaaagtc cacagttaaa cattccttta ttcaccctat ggctcccaag 180
 aaaagcattc ttctctgga gtactggtgt actaagggga caatacacca aatttgttga 240
 gtttacaatc aagtctacta aggttggaact tccttatcag tttggcagag tcccagggca 300
 gaataatcat ccatctacag gtctctgttt cctctccctc cgcagcagtg gagagcatcc 360
 cagtgttttg ggcactgtgt tctctctcgt ccctgcacca gacctggaa gccttgg 417

<210> 230

<211> 462

<212> DNA

<213> Homo sapiens

<400> 230

```

gaaataccag aagagaaagt ttcattgtgc aaatctaact tcatggcctc gctggctgta 60
ttccttatat gatgctgaga ccttaatgga cagaatcaag aaacagctac gtgaatggga 120
cgaaaatcta aaagatgatt ctcttccttc aaatccaata gatttttctt acagagtagc 180
tgcttgctct cctattgatg atgtattgag aattcagctc cttaaaattg gcagtgcctat 240
ccagcgactt cgctgtgaat tagacattat gaataaatgt acttcccttt gctgtaaaca 300
atgtcaagaa acagaaataa caaccaaaaa tgaaatatcc agtttatcct tatgtgggcc 360
gatggcagct tatgtgaatc ctcatggata tgtgcatgag acacttactg tgtataaggc 420
ttgcaacttg aatctgatag gccggccttc tacagaacac ag 462

```

<210> 231

<211> 328

<212> DNA

<213> Homo sapiens

<400> 231

```

ctgtggggttt tcctaaacgc ccctcatctg gttgaagccc tagtgtttct ttctcacatc 60
agaggcaaatt gcattggggg gggctctgggt tggacaataa atttcctctg gtttgaccac 120
agaaaaacag agttctttga ccgctaacat atatgtaaaa agaaagtttg taaaaacaag 180
agttaaaaatg cttctaacag tgtggtcctc actgcacagg acactggaat tggcattcgg 240
ggttgtgtct gtccatgtgg tttcgttgta tgtcatgtgc tctcagctca gacagagaca 300
tccaattgac ttctgacttg gggcattt 328

```

<210> 232

<211> 595

<212> DNA

<213> Homo sapiens

<400> 232

```

cgccaatttt agcaaataag agattgtaaa agaagcagat tgaatgaaga attttttagct 60
gtgcagatag gtgatgttgg gatggaaaat gctaataaac taccctttct tttatcaagt 120
aattaaaata aatctacata aagaaccaa aaggctgttt tataaaagtg aaatatccag 180
tatttcagag ggccaggcaa gagcacttca gatgaggcag tcaaaatcat ttttttccag 240
tgaggataga ccacaagtgg gtggtgagac cattgaaagc ctttatcaac tgaagagtcc 300
atttaacagc ataatttgtg ggaagactgg aatagggctg aataaatgtg tttgaatctc 360
taattttata ctttcttttc ctgaggaact tgatttttct gtccctggat cgccttgtca 420
taattgggtc tgttcctttt actaccactc ttgagtccat atatgaaatc attaaagttg 480
gatgatcagt tttttataaa aatatatatt tttgtccaag aaaaaaaaaa gcatacatat 540
gtgattatgg ctaaatacaa ggtaactgga atgtatatatac ttttgctaatt gttcc 595

```

<210> 233

<211> 600

<212> DNA

<213> Homo sapiens

<400> 233

```

atgaaggtaa actctaaaat cttcataggt caacaaagaa aattttatcct tcacacttat 60
ttctagaaaag cagcaggggt tatttcctag attgcttaca atgaagctag aatatctgcg 120
ataactgtag agtttcaaaa aggatcccta gggctaactc tacgttctcc ttaccagttg 180
agcactctcc ataatttcca gacgggtcat gggggagaat gatagaaatg agcgtgggaa 240
gaaagacaat gaaattagaa atgggtgaga cacatggtgg tagaatgcta agagcaggga 300
tcaggacaat caaccaggtg tctaggaagg gtcaagtcac cagtgtcatc tgctgaccaa 360
tgtaggaag aaataaactc aaaggaaaca ccacattttt ccaattaaac tcaaacttat 420
tgacttgtgg tggttctttg atgttgtggg gactgctata acagaaacca attggatttt 480
caagggcaag aaactttgcc actgaataag atgatgtcat ccttctctgat aacaaatag 540

```

aatgggtggt cagctctaaa cagcgtggac tgagggagtt gcttttctac aatattactt 600

<210> 234

<211> 500

<212> DNA

<213> Homo sapiens

<400> 234

```

aaattcctaa ttcttttact atcttctcaa cttttcccaa agataaaata aatttcacat 60
aatttcattg aggggaaatg gtagttgtaa aaaactacct caagtagcaa tcaccgctgg 120
cagtgttttc tcaactttctg ttotgcaatt gcaatcacac ttccaaaaag aaaagcaaat 180
gtttgctaaa ccataagacag acaacctctt tgtgactggt attataaggt ttataatgaa 240
aacttatcaa atataaaaagg tgctccctct tgaaaatgtg tattttattt gaagttttga 300
gtaagaggtg agtgtttggc aattttcaac actccctcca aaaatctccc aaagttgcaa 360
aaaagtcagt ttagtaaaat tccaagcact taaatgcttc attgagggcc agttgatata 420
cgcaatgcac taatgtgtaa aaattaaccg aatgcaacta ttttataatg gagagctctt 480
accttttctt tccagttttt                                     500

```

<210> 235

<211> 159

<212> DNA

<213> Homo sapiens

<400> 235

```

aaaattttaca gataaaggca gttcaatact gccactgaga agtacatctc ttaacatata 60
caactttcag gccacagttt tgaagggtctg aagtattaag ttggtttgat gaattagtcg 120
gttggcactt acgaacacat ttattgcctt gccatcttt                                     159

```

<210> 236

<211> 254

<212> DNA

<213> Homo sapiens

<400> 236

```

aaataagtga ataagcgata tttattatct gcaagggttt tttgtgtgtg tttttgtttt 60
tattttcaat atgcaagtta ggcttaattt ttttatctaa tgatcatcat gaaatgaata 120
agagggctta agaatttgkc catttgcatt cggaaaagaa tgaccagcaa aagggttact 180
aatacctctc cttttgggga tttaatgtct ggtgctgcog cctgagtytc aagaattaaa 240
gctgcaagag gact                                     254

```

<210> 237

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 497, 505

<223> n = A,T,C or G

<400> 237

```

tttttttttt tttttttttt ttttttcta atttttactt tttctcaagt ttaatgtara 60
catacaaraa aacatcaagc aatgtttatt gkgcaattcc aatcattatt tgcaraatct 120

```



```

tctgacatca catccttata gttacatccc ttttaagcagg gttcagccac tcactctgca 240
cctggagaac ttgatgggta tccctcgaag tgacagtcc gcaaatgaca aaaacactcc 300
aaatctatta gggttggtgca aaagtaatta cgctttttgc cactgaaagt aagtcaccaca 360
ggaccctgag ggaaatggga ggggtgggta tacatagcag 400

```

<210> 242

<211> 75

<212> DNA

<213> Homo sapiens

<400> 242

```

actcacatat gcagacctga cactcaagag tggctagcta cacagagtcc atctaatttt 60
tgcaacttcc tgttg 75

```

<210> 243

<211> 192

<212> DNA

<213> Homo sapiens

<400> 243

```

gctccacatt tgtagcgaac actttgactc caaagagaag gaggaagaca aagacaagaa 60
ggaaaagaaa gacaaggaca agaaggaagc cctgctgac atgggagcac atcagggagt 120
ggctgttctg gggattgcc ttattgctat gggggaggag attggtgcag agatggcatt 180
acgaaccttt gg 192

```

<210> 244

<211> 616

<212> DNA

<213> Homo sapiens

<400> 244

```

aattttatag caatatactg accattctaa aaataacaaa atacatgttg ctctcaacta 60
catagttaaa aaaggtagta aattctctta cccaaaatag aggaggggtg ggctagttag 120
ctgctcaaac atttgtaaca aataaaaaatg tatctatata catataatga tcatgttttc 180
atagcctaaa atcaccatac aaaatctaata aataaaaattg tgcgtgttc aggagttggg 240
aagccaacac attaaattaa caaagtattt ttggtatatg taaataatgg gatagaatct 300
ctcgaatcag gattgtccca gaagtctaa ggcagatgtc aatgacatgc acattgtcca 360
tgttcagtaa ttttcaaaga ctagaataaa ctatgtaaac tattcaatac aattcaatat 420
tacttaactg ctaaaaagta cttcaagatc ttgcactgcc ttgagtgagt ataatacaat 480
tagtaattgg aaaatagctg taatagcagg cactgaagaa ttctgacaaa taccaaataa 540
ctgtttgttt ttaccaataa aactggtaag atgatatcac aaagggtttt aagttatttt 600
gctatacaag gttttt 616

```

<210> 245

<211> 165

<212> DNA

<213> Homo sapiens

<400> 245

```

ttggaacagt ggattaaaaat ccagaagggg aggggtcatg aagaagaaac caggggagta 60
atttcttacc aaacattacc aagaaatatg ccaagtcaca gagccagat tatggccgc 120
taccctgaag gttatagaac actcccaaga aacagcaaga caagg 165

```

<210> 246

<400> 250
 aaaaaaaaca acagcgtaaa tattagccca caagagcagt cctaaacaat cacaattaca 60
 ctgtactacc caagaagact gtttattgtg aagcatttac ctttcaaaaa atcattacat 120
 ttctatttct tggaggagca gcacattgtg gagggtgatt ctttaattctt cattgagttt 180
 gtcaatagga cattgatgct ggatagggtg tcttttggtt ttatgcctca gaccatcttg 240
 tgagattgtt tgcctatctc ataatacagt tttatgcaga aagggtgaaa ctatgtaaat 300
 ggtttttatg gaaattatca gttacaatat ttt 333

<210> 251
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 251
 aaaccatttg taaaaaactt ctataaattt ttctctctct ttctctctta tgtacaaaaa 60
 tatcttaata tatccccgaa ctgggttagga tagatacaaa tagatttttt ataataaaaa 120
 attcacaaaa gattggaagc attctataat gaaaatggta gaaaagacag tgtgagggaa 180
 gccatggggg ttgggaatcg ggccctggag gagaagcaga gtttcaaagg gctgagaata 240
 gcatagtttc actgtaaaacc aatgtctaca gcttattggg gtgggggcta ctgagacgaa 300
 agacaccaac tcgtttctag agggctaaga actgcacttt aagaaagggc ggggaggtga 360
 agggaccgca gcaagaactt tcag 384

<210> 252
 <211> 211
 <212> DNA
 <213> Homo sapiens

<400> 252
 aaagcagtct gaaaatggga catctgtaga gaaattcatt tccttcttct cctccggatg 60
 tggaatggaa gctttgaggg aaggaaaagt aggaaaagag cgggatggga tgggatggga 120
 tgggatggga tgggatagga agagaggctg ggggaatgggc agagaagggg gtgctgagtg 180
 tgctgtgaga tagagcaaga tcacaagaag g 211

<210> 253
 <211> 135
 <212> DNA
 <213> Homo sapiens

<400> 253
 aaaaattggt tcttgacaag ctgacttggc acttaagtgc acttttttat gaagaaaaag 60
 tacaatgaac tgcttttcct caagcaataa ttgtttccaa cttgtctggg aattgtgtgt 120
 ctggttaactg gaagg 135

<210> 254
 <211> 361
 <212> DNA
 <213> Homo sapiens

<400> 254
 cctgtagccc ctgctacacg ggaggctgaa gtgggaggat cacttgaacc aatgaggggtg 60
 aggttacagt gagcccagat catgccacta ctctacaggc tgggtgataa gaggtagacc 120
 ctgtatcaaa aaaaagacaa ggaaaaaaa aactgggccg tttgtttttg cagaatgtct 180
 ctcaatttgg acttttttgg caggaatata atacaagtga taaaaatgct tctttaacat 240

tagaacctgt ataaaattac cattacagac cttgctatct tacttatagg taaatcaactg 300
 ttaccacagg taagtctttt gggaatttcc aaaaatgaag tccatggaca gttaaaaact 360
 g 361

<210> 255
 <211> 331
 <212> DNA
 <213> Homo sapiens

<400> 255
 aaaaaaataa ataatccacc aacgtgattg accttggcga gatcatgttt ctagtctata 60
 cctcagtttc cccatctgta aagtgaggat aatgtccac cccatgtaac tgtggtgagg 120
 accaactgca aactgtgcc tgcgagtctc cttggaaaag tgtaaggttc tacacaaatg 180
 gaaagtgatc tgatcacact cagtgtcccc agcccagcct ttcagtgtcc tggccctggg 240
 gtggggggaca atactctcct caccctcttc actagtcttc atgaatagca aggaggccat 300
 aacataattt ggtctaaacc ccttcctttt t 331

<210> 256
 <211> 186
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 115
 <223> n = A,T,C or G

<400> 256
 cctttggggc cttgcacttt gacctgcaat ggggccacac cagccttgct tgtgtccacc 60
 tggaaggact gagggagggt ggcacgaacc atgcctgggc tcaggccggg cccanagcac 120
 ttgaccttg acgcatctgt cacatcatgc acagggacct tgaaaggact gcctggcact 180
 tgatgg 186

<210> 257
 <211> 255
 <212> DNA
 <213> Homo sapiens

<400> 257
 ctgggggtccg tcaccgacct ttgggggaact gggctacggg gaccacaagc ccaagtcttc 60
 cactgcagcc caggaggtaa agactctgga tggcattttc tcagagcagg tcgccatggg 120
 ctactcacac tccttggtga tagcaagaga tgaaagtgag actgagaaag agaagatcaa 180
 gaaactgcca gaatacaacc cccgaaccct ctgatgtctc cagagactcc tccgactcca 240
 cacctctcgc ggcag 255

<210> 258
 <211> 604
 <212> DNA
 <213> Homo sapiens

<400> 258
 ctgaattttgc aatggagttt ggtggtgcaa tcggtattga ttagtttggc atagacagat 60
 gcagcagttt agagcaaaat cgagaaaatg attttttttt tcctccttga tttcctggca 120
 gaagatatct tacttttttca gcaaactttt cttttaacac taaagcagcc tagggcaatg 180


```

ccagatactt agagcttttc tcttgattat aagtagaaat ggggtgtct gggctagagg 240
tggaggggtg atgtgctgtc gtcacagtct agctggcagc aagcaaggca aaagcagaga 300
ctgctctaga agcggttcca agcagcagag acgtcaggaa aggcacttct tagtaccaac 360
ctctatgctt taatagttgc ttgttaagct gcttcattgg ttgagacaaa ctaccagcac 420
ttcaaagagc tcagttctct gctcaactct cttctctagt tacattatct ttttcccttc 480
aggagactga ggcaggaaaa tcgcttgaac tcaggagggtc gaggccgcag tgagccaaga 540
tcacaccacc gcactccagc ctgggccttg caaagtgcta ggattacagg aatgagccac 600
cagg                                           604

```

<210> 259

<211> 429

<212> DNA

<213> Homo sapiens

<400> 259

```

aaaaatgtct gtatcgagat cttccagttt gaagtcttcc tcctctgtgt cttcccaagg 60
ctctgtggca agctccactg gttctccgcg ttccatcaga accactgact tccacaatcc 120
tggctatccc aagtacctgg gcacccccca cctggaactg tacttgagtg actcacttag 180
aaacttgaac aaagagcggc aattccactt cgctggatc aggtcccgcc tcaaccacat 240
gctggctatg ctgtcaagga gaacactctt tactgaaaac caccttgccc ttcatctctg 300
caatttcagc agagttaatt tgcctgctgt tagagatgta gcactttatc cttcctatca 360
gtaactgctc cgtgttcaga ctccctggtt cttccaggct tacagtggac atcatcagct 420
tctgcttt                                     429

```

<210> 260

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 179, 318

<223> n = A,T,C or G

<400> 260

```

ctgcaacaca tgcagcacca gtctcagcct tctcctcggc agcactcccc tgtcgccctc 60
cagataacat ccccatccc tgccatcggg agccccagc cagcctctca gcagcaccag 120
tcgcaaatac agtctcagac acagactcaa gtattatcgc aggtcagtat tttctgaana 180
cgcatatggc agacggattt gcgtatacca aggagagtgg cataggaggg aaaagcatat 240
gtggctgaaa cctgtaagtt ggtgttggtt atgcagaaat gtgtaacaga tcaaacggtc 300
ctctcaagtg tctattanat aggcaataag aactgcagtg tagctgagta acatctttta 360
gctgactata aatcactttg ttttt                                     385

```

<210> 261

<211> 230

<212> DNA

<213> Homo sapiens

<400> 261

```

ctgtactgga tccctccagg tggggggcag tctcacctga ctattacaat agcctcctaa 60
gtgggtttccc tacttgcaac cttgcccgtg taatatctat cctccacaca gcaggcaggg 120
cgatccttta agaatagaag ttagatcatg aaaatgctct gctctgatcc ctgcaaaagc 180
tcgccacctc cttacagtca ccgctgaact cgtagcagag gttcaggagg 230

```

<210> 262
 <211> 198
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 88
 <223> n = A,T,C or G

<400> 262
 atgttaagta aacatgaaat ctatataaca gaacaaaaat tcactcttat gtcaatgtca 60
 gcgtgttaat gtagatctat ttactganac agactctgta gtggcagaga gtggccttgt 120
 taagccagga cctgtttctg caggctgtgg gtagaagcta ggaagtcctt ggagtttcac 180
 ccagcttttc catgaatg 198

<210> 263
 <211> 157
 <212> DNA
 <213> Homo sapiens

<400> 263
 aaaatatatt tctaaacaga atgggccgac tcagtcacag taactgttga tctccatagt 60
 agagcaaccc acaaagacag aactgatttt tttcccataa tcaggggtga aaaatatata 120
 acttgtttct gaacccaaac cacaatttct gcagttt 157

<210> 264
 <211> 290
 <212> DNA
 <213> Homo sapiens

<400> 264
 ctggctactc caagaccctg gcatgaggct gaggacaact tacaagggct tcaccgaagc 60
 agtggacctt tattttgacc acctgatgtc cagggtggtg ccactccagt acaagcgtgg 120
 gggacctatc attgccgtgc aggtggagaa tgaatatggg tcttataata aagaccccg 180
 atacatgcc taccgtcaaga aggcactgga ggaccgtggc attgtggaac tgctcctgac 240
 ttcagacaac aaggatgggc tgagcaaggg gattgtccag ggagtcttgg 290

<210> 265
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 265
 aaaaaaagga aaggaaagag aggaaaagaa aataaaataa gacgatttat tgcttctcct 60
 cagcatcctc cttggctctc tccttcaccg agagagcttc tagcttttcc gccacttttt 120
 cggcatgatc atttttgcct gatcctttct tttctctctc ttgatctctt ttcttgcat 180
 cttcaaactt tgttttgaat ttctgtgcat tctcagcatt caggaagcgg atgg 234

<210> 266
 <211> 335
 <212> DNA
 <213> Homo sapiens

<400> 266
gtcctcatca tcccagtttg aggcagtgtt ggagtgggga aggccgtctt agaccataga 60
ggttggaaga cgctgagaga tcatccagcc cagccccttg atgttacaga gcagaagaca 120
gatgccc aaa caggagaagg cacttgccca cggtcatacg gcaggttgcc aaaaaaccaa 180
gatggcagcc ctctctcagc gtgcctcact gccactccca gagccaggga gcccataaa 240
accacatca tgtcttaaga gtatatctgg ctcccttgacc agcaatcggc cctgggagcc 300
accagggtggg aaaagcgct ctgccagagt ccagg 335

<210> 267

<211> 619

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 69, 86, 119, 205, 352, 547, 580, 611

<223> n = A,T,C or G

<400> 267
tggagctctg acgaagggat cggggagggtg ctggagaagg aagactgcat gcaggccctg 60
agcggccana tcttcatggg catggngtcc tcccagtagc aggcccggtt ggacatcgng 120
cgctcatttg atgggcttgt caacgcctgc atccgctttg tctacttctc tttggaggat 180
gagctcaaaa gcaagggtgt tgcanaaaaa atgggccttg agacaggctg gaactgccac 240
atctccctca cacccaatgg tgacatgcct ggctccgaga tccccccctc cagccccagc 300
cacgcaggct ccctgcatga tgacctgaat cagggtgtcc gagatgatgc anaagggtc 360
ctcctcatgg aggaggagg ccactcggac ctcatcagct tccagcctac ggacagcgac 420
atccccagct tcttgaggga ctccaaccgg gccaaagctgc cccgggggat ccaccaagt 480
cgccccacc tgcagaacat tgacaacgtg cccctgctag tgcctctttt caccgactgc 540
acccanaga ccatgtgtga gatgataaag atcatgcaan agtacgggga ggtgacctgc 600
tgcttgggca nctctgcca 619

<210> 268

<211> 147

<212> DNA

<213> Homo sapiens

<400> 268
cctataaccc agacaccagc atggacaaaa ctcaattata ctgaattcag agacaaaatt 60
cagtgcact ctctaccac ttatttaggg ttctacagca tttcactgag cagacttagt 120
ttttgtttt tgtttttaca acctttt 147

<210> 269

<211> 325

<212> DNA

<213> Homo sapiens

<400> 269
ctgagctgta ggaatgggtt cttggtacac aagatagtat tgttgagcta gttttcgagc 60
tctgtgcaca agcactctgt aatcggggcc catgcoactg tacacaaac ctatatgctt 120
ggtaattggg tctactttgt gtacacttcg ctcatcatac agaattggatt tctgtttttt 180
ctcagttgct aataccacac catttgagc tttaattccc acggacgggg ctctccagc 240
tacagcagcc aaagcatatt caatctggac aagtttacca gacgggctga atgtagtcag 300
cgaaaagctg taccgcgct ccgc 325

<210> 270
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 270
 aaacatatgg taaattaccg agtgacacct ctgggctaga gacctctttt gaggggagtt 60
 tgcaaaactac ggattcaatt tctttaacag ttatgaagtt ctttaaagaa cctgttttgt 120
 attgggggggt tgtggtcacc tgtgcttttc tgagatttgg ccctacatc taagttgttg 180
 aatgcatgtg tgtagagttg tttatgggtgc ttccctttct tcttagaagg gtctatagta 240
 atatccctcg ccttatccct agtagtacta atttgtgttt tcttacttct tgacaggcaa 300
 acacatcaga gcataagtgg ttccctaatgc caagctgacc tcccttgatc tctgtcttct 360
 acaggatatt gacatgggac ttctttatta ccttttcagt tcaactgatac cttcaaatag 420
 ctttattt 428

<210> 271
 <211> 206
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 18, 21, 33, 118, 180
 <223> n = A,T,C or G

<400> 271
 cgtcccggag cccacggngg ncatggctgg canagcgctc tgcattgctgg ggctggctcct 60
 ggcttctgtg tcttcagct ctgctgagga gtacgtgggc ctgtctgcaa accagtngc 120
 cgtgccagcc aaggacaggg tggactgcgg ctacccccat gtcaccccca aggagtgcac 180
 caaccggggc tgctgctttg actcca 206

<210> 272
 <211> 83
 <212> DNA
 <213> Homo sapiens

<400> 272
 ctggcttccc tgagaactca acaatgcctt ttcttgaggg ccttctctga tcatccacaa 60
 tgactacagc cctctctacc tgg 83

<210> 273
 <211> 472
 <212> DNA
 <213> Homo sapiens

<400> 273
 ctggagaagg tgtgcagggg aaacctgct gatgtcaccg aggccagggt gtctttctac 60
 tgggacact cttccttttg gatgtactgc atggtgttct tggcgtgta tgtgcaggca 120
 cgactctgtt ggaagtgggc acggctgctg cgaccacag tccagttctt cctgggtggc 180
 tttgccctct acgtgggcta caccgcgtg tctgattaca aacaccactg gagcgatgtc 240
 cttgtttggc tctgcaggg ggcactggtg gctgccctca ctgtctgcta catctcagac 300
 ttcttcaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360
 agcctgtcac tgacgttgac cctgggcgag gctgaccaca accactatgg ataccgcac 420
 tctctctctt gaggccggac cccgccagc cagggagctg ctgtgagtc ag 472

<210> 274
 <211> 205
 <212> DNA
 <213> Homo sapiens

<400> 274
 ccaggcggcc cgaggactta cggtcggcac ttctctgttc tcccggtgtca gcgtgtggtg 60
 tcgcctgcat gggtcgtacc tggatgggtgt gtccaccatc gacacggagg ggctggattt 120
 gtttctcagg caatcctgta ttttaatttt agatgtattt cctgaagcat atttttcata 180
 gaatgtagcg tgtaaatagc ttttt 205

<210> 275
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 275
 ctccctcgccc tccccaccga catcatgctc cagttccagc ttggatttac actgggcaac 60
 gtggttgga tgtatctggc tcagaactat gatataccaa acctggctaa aaaacttgaa 120
 gaaattaaaa aggacttgga tgccaagaag aaaccccta gtgcatgaga ctgcctccag 180
 cactgccttc aggatatact gattctactg ctcttgaggg cctcgtttac tatctgaacc 240
 aaaagctttt gttttcgtct ccagcctcag cacttctctt ctttgctaga ccctgtgttt 300
 tttgcttt 308

<210> 276
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 276
 aaattaactt tttcttgcaa aatattcatt tcattttttc caagaaaatc ttataaaggc 60
 aaaaataaaa ttttattttg gcaaatgtca tgaagtogat actggcagca tatggagtta 120
 gttaaaaata gacaacaact gctagatata ttcaaaatc tatttttttt tctgagcata 180
 gtcaaagaga aattttcatt t 201

<210> 277
 <211> 520
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 32
 <223> n = A,T,C or G

<400> 277
 aaaaaaaaaag tattcagcac catttgctca tnggtctttc agagtttggt cttaaagttt 60
 ctggaacttt cctgtctgta aagtaacagg aattactgag ctacattgga aagcctctct 120
 gggacaggca gtggggagtt aagcagtcac cataaaggaa tcagtgtaca ttcagcatgg 180
 tgacttgact acacaacaat cccttccct ctactgtagc tcaagagaga catgcttcta 240
 accactgagg tatgaggagt ctcagactgt tatttgctgt tagaattggg cttcccagct 300
 aataacagta catctctggc acagatgcta ttggtcctta atgtcctgtg attttaggaa 360
 atagtttgga tttagttcaa tttattcaga aaccaaactg gtttaattag cttcactact 420

ctggcagagt aagggtatgc tggtttagta tctttataaa atatatataa tgtataggta 480
aatcatagtc ttaaatacata cctaaaatac tgtatcattt 520

<210> 278

<211> 264

<212> DNA

<213> Homo sapiens

<400> 278

cgcgccgggc ggaactttcc agaacgctcg gtgagaggcg gaggagcggg aactaccccg 60
gctgcgcaca gctcggcgct ccttcccget ccctcacaca cgggcctcag cccgcaccgg 120
cagtagaaga tgggtgaaaga aacaacttac tacgatgttt tgggggtcaa acccaatgct 180
actcaggaag aattgaaaaa ggcttatagg aaactggcct tgaagtacca tcctgataag 240
aaccctaatg aaggagagaa gttt 264

<210> 279

<211> 414

<212> DNA

<213> Homo sapiens

<400> 279

aaacatacaa taatttttat tatggaaatt aatctttaca tacaaaatca gctacgtaat 60
tttactttaca aaacaataaa aactgttctt tactgtggca acaaaagaag cattttgaca 120
aatgaaaaaa attaatgcaa acaaattaaa acaatgcttt tctttttact tgcttcactg 180
tctcttctat ttatttttcta tgatcatttg acacaaacat ggattacttt gatatctact 240
gaaacataaa tgataagggtt cttaaagggtt gaattaaaag tctgggtggt caatatttta 300
gaagctgaat aaacaaaacg aaattggggg ttgtgattac agaggattta tcattttttc 360
cctttgtcca tatgaaaata tataatagaa aattaccacac gggaaaacat tttt 414

<210> 280

<211> 262

<212> DNA

<213> Homo sapiens

<400> 280

ccaccatgcc tggcctgctt caattttttg atgccacttt gtaaaccggca ctttaattatg 60
gaaaatagga aaaagcaaaa ctaaaataag gaagaggata tatatataac ttttcacaat 120
ctcttttctg atccccctta gatgccagc caaccaggac cacacacaga tttcatttta 180
tttgtagagt atatgaaaag atttaatagt ctcatgcatt ttatttttac tatactgatt 240
tctacgtttt gactgactat tt 262

<210> 281

<211> 349

<212> DNA

<213> Homo sapiens

<400> 281

ctgtgacccg ggtgcatcag tggatatagt tgtgtctccc catggggggt taacagtctc 60
tgcccaagac cgttttctga taatggctgc agaaatggaa cagtcatctg gcacaggccc 120
agcagaatta actcagtttt ggaaagaagt tcccagaaac aaagtgatgg aacatagggt 180
aagatgccat actgttgaaa gcagtaaacc aaacactctt acgttaaaaag acaatgcttt 240
caatatgtca gataaaacca gtgaagatat atgtctacaa ctacgtcgtt tactagaaag 300
caataggaag cttgaagacc aagttcagcg ttgtatctgg ttccagcag 349

<210> 282
 <211> 381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 209
 <223> n = A,T,C or G

<400> 282
 aaacactaaa tgaagcttct cacaatttct aattataaac aaaaggctga aaacagtatg 60
 ggaaacaaaag tttcaaaaaca aagaaaagtt gagtaaaaagg tgccccctct atggctcatc 120
 tgaaagaaac attttactca gagaggcaaa catttctgat ctaggagtaa gtttcccact 180
 cactttgcaa ggaccctctc attctgcana aagacctaca agtctttctg gtctcaattg 240
 caaagtacgt gaaaatgtgt atgaaagatc taaaagctaa atattagaat aaggctaatt 300
 gaaatcaaaa ttgtgtgctg gtctaaatat acatcttcgg cttcttcctt tttagtaagt 360
 atttttattt cagatgtatt t 381

<210> 283
 <211> 543
 <212> DNA
 <213> Homo sapiens

<400> 283
 aatatagctc ctccctaccc ccaacaatgg accctgccc a ttgcctccca gttccttgat 60
 cttcctaggt tccacaactc tctttttcct tttagtttta ttccctccag ccaaacctct 120
 cttattcaat attttgagcc aatgggggag ttatgtagat ttttttcctt acacattagc 180
 tggccccctt tatgaccaat gactcataag gcaagatgtg tgggtggcatc ttcggacagg 240
 cagcaggctt taatagggca gcctgggttg gtggaggcaa gcaaagctaa ttggcatgcg 300
 tgggaatcaa accccaggcc ctgggctcat tagcccatgg tcaaaacaac tgagccagag 360
 gaggttaataa tttgcccag aatatcagta gttcctttat tagaagaaaa tggctgatat 420
 ggaagttggg gaatctgaat tgccagagaa tcttggggaag agtaataagc tcttagtctc 480
 aacaaaaagt gttttttcat ctcagcgcgt aaaggggtgct atatgggaac aaagaagtat 540
 ttt 543

<210> 284
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 284
 aaactgggat tttatctttg attctccttc agccctcacc cctggttctc atctttcttg 60
 atcaacatct tttcttgctt ctgtccctt ctctcatctc ttagctcccc tccaacctgg 120
 ggggcagtg tgtggagaag ccacagg 147

<210> 285
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 285
 cggccgaggt ctggcttcac tctactccc tctctgctcg cagcacgtcg gccgccagct 60
 ctttgatgtg ttcccaggcc cgctgcacat gggcagattc caccgtgcga gaacagatgg 120

caaagcgag gacaaacttg tccctgaggt gacatggaac caagtggatt tttttggcac 180
 tgttttattct ttgcagaaga gcttcattca ctttggttga acccttttagc cgaaagcaga 240
 caagccccag aatgacttcc acacagattt caaagcgggg atcctggcgc accagtgact 300
 caaactcatg ggacag 316

<210> 286

<211> 322

<212> DNA

<213> Homo sapiens

<400> 286

cctggggagc ctttttagtg ggtgggacct caggcagacc cccaaaccaa agggagccag 60
 atgcccaggt tcaagtcatt agtgatatgt ggcagggtg acagagaaat aatcctggag 120
 gtctccaaag ctgctgggaa tggaatggcg atgaaaagcg caggagtggg cagggtgttg 180
 tgggtgatgg tggcctcact cagagtggac caaggcccca gtccttgcc caaaaccaa 240
 gcccttgggc ccgaagtttt tagcataaca tcctttgcag taaatctcgc catccttgtc 300
 tgccagggtg gttgactcaa gg 322

<210> 287

<211> 364

<212> DNA

<213> Homo sapiens

<400> 287

ctgcccacgc tcaaaccaat tctggctgat atcgagtacc tgcaggacca gcacctcctg 60
 ctcacagtca agtccatgga tggctatgaa tcctatgggg agtgtgtggt tgcactcaaa 120
 tccatgatcg gcagcacggc ccaacagttc ctgaccttcc tatcccaccg tggcgaggag 180
 acaggcaata tcagaggctc catgaagggtg cgggtgcccc cggagcgctt gggcacccgt 240
 gagcggctct acgagtggat cagcattgat aaggatgagg caggagcaaa gagcaaagcc 300
 ccctctgtgt cccgaggagg ccaggagccc aggtcaggga gccgcaagcc agccttcaca 360
 gagg 364

<210> 288

<211> 261

<212> DNA

<213> Homo sapiens

<400> 288

aaaattataa ctactcattc tttcttttagc cttagttaat ttgagcagaa gccacaacaa 60
 gcaaaccaca ataaatttag aattggcaga aatccacatt aactcctctt cccaagtttc 120
 cacactacta ccatttacag ttgtaggttt gtaatgtata attatgtaat gcagaaacta 180
 gctttgactt gtgtaacgat gcactgtcaa agtaagcaaa gtaagaattg aaattccaca 240
 ttcccagaat ttaacactca g 261

<210> 289

<211> 261

<212> DNA

<213> Homo sapiens

<400> 289

ctgagtgtta aattctggga atgtggaatt tcaattotta ctttgcttac tttgacagtg 60
 catcggttaca caagtcaaag ctagtctctg cattacataa ttatacatta caaacctaca 120
 actgtaaatg gtagtagtgt ggaaacttgg gaagaggagt taatgtggat ttctgccaat 180
 tctaaattta ttgtggtttg cttgttgtg cttctgctca aattaactaa ggctaaagaa 240

agaatgagta gttataattt t 261

<210> 290

<211> 92

<212> DNA

<213> Homo sapiens

<400> 290

ccactacccg aacttacagg tgccaaaaga agaaagggtg taaacggaga ccacctatca 60
ctcatcagaa cctaggatca tcacattcct tt 92

<210> 291

<211> 287

<212> DNA

<213> Homo sapiens

<400> 291

ccatggctcc gctcagggcc ccgggtcacct ccgagtcact ctgttccttg actgtctttg 60
tgtttctgta cctcaaggca ctgaagctgg aggactctgt ccatgcctgt gtcaccctcg 120
tgtgggagcc tctgggctcg gcagggtccac atttcatgag ctgaggcgtg ggccagggcc 180
atctggaaag ggaactcggc ttttccagaa cgtgggtgat catctgtcgg gtgtgtggtg 240
aacacgttca gttcatcagg gcctacgctc cgggaagggg cccccag 287

<210> 292

<211> 270

<212> DNA

<213> Homo sapiens

<400> 292

ccattgtttc ctgctggcg aaggctcctt gaacatccct caccttcctc tcccgcctct 60
gccttctgct ggggtcaaagg tggccttttc tctccagcct tgaattgttc cctgttggct 120
tcccaagggc ccatctgctg gtacagtcca cacttccaca gccaaagacc gagagggctt 180
tcaactgccc aagcctctct cctgtgacct tgggattctg tcttggcaga atcctttgtc 240
agcggctctt actctgtcct tcctgtttgg 270

<210> 293

<211> 333

<212> DNA

<213> Homo sapiens

<400> 293

ccatgctcgt caacctgggtg tccactgctt gctacgtctc cttoctcttc ctgggctgcg 60
aactggccc tgtggctggg gttactgttc cctatggaaa cagcacagca cctggctcag 120
ccctggaccc ctactgccc tgcaataata actgtgaatg ccaaaccgat tccttcactc 180
cagtgtgtgg ggcagatggc atcacctacc tgtctgctg ctttgtctggc tgcaacagca 240
cgaatctcac gggctgtgcg tgctcacca ccgtccctgc tgagaacgca accgtgggtc 300
ctggaaaatg ccccgctcct ggggtccaag agg 333

<210> 294

<211> 123

<212> DNA

<213> Homo sapiens

<400> 294

ctgatacaaa tacagaaaac tctgcccatt atccaagaaa caaataatta agactaaaat 60
gcaagctgat gtgttgacgc attgtagggc cactaaatag ccatctgtga ttcgtggcaa 120
ttt 123

<210> 295

<211> 311

<212> DNA

<213> Homo sapiens

<400> 295

ctgcatacag acatttgttt aggtcatctg gattatcttg attgtcacca tggcaactat 60
ccacaaccag tgcctagggtg tgtgagaaga gtgatacaat aatactgtgg catggtcatt 120
tagctaattcc agtctaagcc taacagaaac cttttccatc aaagtttttc agagaataac 180
aacatctcat aagaggccag aggatggctt gtgcttaata tcacacctgt acagtagggc 240
agtgtttccc aggtgtctg cttacatttt agcttgtctt acggttacat atggtttttag 300
tattttcatt t 311

<210> 296

<211> 241

<212> DNA

<213> Homo sapiens

<400> 296

ctgcggaaga tctgcaacca cccctacatg ttccagcaca tcgaggagtc cttttccgag 60
cacttggggg tcaactggcg cattgtccaa gggctggacc tgtaccgagc ctcgggtaaa 120
tttgagcttc ttgatagaat tcttcccaaa ctccgagcaa ccaaccacaa agtgctgctg 180
ttctgccaaa tgacctccct catgaccatc atggaagatt actttgcgta tcgcgggcttt 240
a 241

<210> 297

<211> 295

<212> DNA

<213> Homo sapiens

<400> 297

aaacacaaga tgaaaatact ctgttctgtc caaagcatca cctaattggtg tgaggcatct 60
cacttagctg tggagaagtc cttggaatta gatctcagaa agacagcttt aagacagtaa 120
aaccttttgg caatgggcta attgccttaa aagaagagtt ctacctgaaa gaccttgacg 180
gtggagaaat tgtcctacaa agattcttgg atatgttagt ggagataact gacatgggta 240
gctgtgggtc aaccaggaac tgtcaacaac ctgatctctg caaaaccagg atgga 295

<210> 298

<211> 347

<212> DNA

<213> Homo sapiens

<400> 298

ccaaaataaa gcttcaggca agaggcaaag atccagtgga atatgggaga atgggtggagg 60
accaacacct gctaccccag agagcttttc taaaaaagc aagaaagcag tcatgagtgg 120
tattcacctc gcagaagaca cggaaggtag tgagtgttag ccagagggac ttccagaagt 180
tgtaaagaaa gggtttgctg acatcccagc aggaaagact agcccatata tcctgcgaag 240
aacaacctg gcaactcgga ccagcccccg cctggctgca cagaagttag cgctatcccc 300
actgagtctc ggcaaagaaa atcttgacga gtcctccaaa ccaacag 347

<210> 299
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 299
 aaaaagtaaa catgaaaaca tcacgaattg taccatgatt caagaataac ttttgtaata 60
 gaaaacacat gaccttttgc agtatagtgt gataccgaag taaaagtga agaaataaat 120
 gcaggaaaagt ttaagtggat gtaagttttt ataaggaaag taataagagg aggctgcttt 180
 tgaaggtcct ttgatcttcc atgatgataa tatcgttgca aagttcttta acttgatttc 240
 aagtaattag cagttgacca cttgggtt 268

<210> 300
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 300
 aaattggaga aggaagtttt cctgaagagc cagaatcctt gctaagtcatt ttagatccaa 60
 ctgaccatct ttatttctgt caaaaatcct catcatgggt cgggtgtatt cttccagttt 120
 agcctcagaa atggcctttc tgtggtgaag aaagaggtct cggaggaagt tgcggagctc 180
 agcag 185

<210> 301
 <211> 75
 <212> DNA
 <213> Homo sapiens

<400> 301
 aaaattggaa agtgggataa gaaatctaaa gtaaccagct tatctttgaa acaatattat 60
 tttgaaattg gcttt 75

<210> 302
 <211> 247
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 159, 188, 212
 <223> n = A,T,C or G

<400> 302
 ccatgttctc tgaattgggt gcagaagaca agggcagagt ggctgcggcc cctattacct 60
 ttgtagcagc cacatcagaa agcagaagaa aacagtattt ctgaaggcat tgtttgaggt 120
 tgatctcagc actgaacgat ttcaagccct acgcaccana acagaaggag ggtggaggaa 180
 gtgatcanag ggaacgagct gtaggtttgc anaaatgtgt gaaacaaaa tgatcactgc 240
 ctacttg 247

<210> 303
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 303

```

ctgcttcaga ggaaatcaact gaaaaataaa gaaaaaacat ccatgcatgg ctgcatccag 60
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tttcagagag agactttatt gcaactgtga ccaccgtcac tggtagcac tgctgttcgg 180
ccccagcgg acttaaaaga ctggaatgtg gtagtggcgg tcgttctcgg tcagcaggga 240
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aaacttgaac agtctgaaca cttttatctt tacttcaagg gagtatccaa gtataaacat 360
atcaatctgc tctagtccac atgtgtcgcc tacagaattc aggtgattca tcatgaagct 420
caaaggatca gaggatgtct ccctggaaaa caggagtcta aaaagactgg gaatgacctt 480
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```

<210> 304

<211> 522

<212> DNA

<213> Homo sapiens

<400> 304

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ccgcgctcgg tctacaatca cgttttatta ttggctcgtc tagtcatggg atagagaagg 60
taaataagcaa aatagaaaga aaagggggaa aaggtagaag gcaagggaa aactattgg 120
tttagatctt taccctggtc ctgtcaatga tcaggtaatt ggaaggatca aaattaggcc 180
aaacttggtg attgggcca aattgaacca aagtttgtgt caagaagacc tggggcagag 240
atatgtgact aaatcatttg gaatatgccc agaccccaag aatatttatg cccaacttga 300
atgctaacca gaagtcctt actgtagaag attgtaagg tgcattttt ttgccccgac 360
accaaaatat tgatgtatt tccaacacca attctccaat tctctgacac caactcgatg 420
ttcaacaatt cagttatatt ctgtcactaa ttctgcagc tatcagcagg cccacagggt 480
aaaggattca gtctcacaag attgcccc caccacttc ag 522

```

<210> 305

<211> 165

<212> DNA

<213> Homo sapiens

<400> 305

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cctaaagcgc tctcgcgtga agctcaagg gtccacaatg atttgtttgt caaagttatt 60
gagtgcata ggcagttctc ctctcctcc accctgggtg tgtgaggcat cgtctgaggc 120
agtggcctgg gctgcattgg aatgacctgt gaccgcctgc tgcag 165

```

<210> 306

<211> 294

<212> DNA

<213> Homo sapiens

<400> 306

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ctgcacctaa gacatggccc tggctaggcg ggaacagctc acagtagoga tacattcaca 60
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accacacaga cagagacgtc actcaagcag cacagccaca aatagtttac agcagctcat 180
gcccggcatc cgcccatgct gggagactcc ctgaaagggt ggcacctgcc gtctatgagg 240
aggtgtctcc ctccatcatt aaccccaaac cacacaatgt gtgaggagag cagg 294

```

<210> 307

<211> 181

<212> DNA

<213> Homo sapiens

```

<400> 307
aaaaatccat gacaccttga tagaaattag agttttacaca aacaaaaaag gaaccttcga 60
tattgccagc agctataaaag tgaacgtact gagaccgaca ggacagcaag aaggcatttg 120
cacatttata tctgacaccc gaccatactt tcagtcacca gaatatcttc tctccagatt 180
t                                                    181

```

```

<210> 308
<211> 179
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 138
<223> n = A,T,C or G

```

```

<400> 308
aaggctgagg actgctggga gctcagatca gcccgagact actggctcat gggcagccaa 60
aaaatactgg atctgctgaa cgaaggctca gcccgagatc tccgcagtct tcagcgcat 120
ggcccgaaga aggcccanct aatcgtgggc tggcgggagc tccacggccc cttcagcca 179

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```

<210> 309
<211> 129
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 28
<223> n = A,T,C or G

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<400> 309
ctgcccgtt gcccgtagct gactcagntt cctcatcttc atctccatcc tcttcctcac 60
catcaccttc ttcttcctcc tctcttctct cccacacttc ttctctctct tcgtctacct 120
cattgtcag                                                    129

```

```

<210> 310
<211> 390
<212> DNA
<213> Homo sapiens

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<400> 310
tgaggctggg ggagagccgt ggtccctgag gatgggtcag agctaaactc cttcctggcc 60
tgagagtcag ctctctgccc tgtgtacttc ccggggccagg gctgccccta atctctgtag 120
gaaccgtggg atgtctgcat gttgcccctt tctcttttcc cttttcctgt cccaccatac 180
gagcacctcc agcctgaaca gaagctotta ctcttttcta ttccagtgtt acctgtgtgc 240
ttgggtctgtt tgactttacg cccatctcag gacacttcag tagactgttt aggttccctc 300
gtcaaataatc agttaccac tccgtcccag ttttgttgac ccagaaaggg atgttattat 360
ccttgggggc tcccagggca agggttaagg                                                    390

```

```

<210> 311
<211> 355
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> 127, 131, 154, 156, 192, 204, 227, 242, 271, 274, 297
 <223> n = A,T,C or G

<400> 311
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 gctatangga naaaaattct tcgagttcca cccnancctc tctaaacatt tggctcactc 180
 aaaacaaaaa gncaccaatc ttantactgc tgaacttcat ttatgtnacc taacattaac 240
 cntcgtagga aaaccaaata gccctctcgt ncangatatg ttgctaaagg actacntgt 300
 tcaacacaac ggctccggtg tgtgaactcc tgtttgggtg attcccctac tctca 355

<210> 312
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 312
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 ttgttgagat tggggaacaa tgggaacacc aaggtaactc cagttaacga tcatgtcact 180
 ctcattttct atctttacat tctggatcaa cctgtccaaa ttttcttccg tagttccatt 240
 aatactgaag atataaagta gaattgctct tattttatca caattatcat gatttttgtt 300
 gagtagaact ggaaggagta ctgcgatgga atctttcacc ttctgtcctt ctgcatcagt 360
 tccaagtgcc aggtcctgtt cagttttgca gagcttttct atattaagct tgaacttatt 420
 catgcaatct totgctaagt taagatggac aacctgctta gtaatctgtt ttcggaata 480
 gggcatcttt ttcatcag 498

<210> 313
 <211> 653
 <212> DNA
 <213> Homo sapiens

<400> 313
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 aaaaacaaaa acaaaaacgc atttaaggat acacgaagca gtgaaaacaa agccccagta 120
 ttttcgctaa agtactggaa atacctgtt ctaaaaacag ctttatattt gtccactgcc 180
 tagaatagct ctcacccaaa cctcaaaaat aagagcagat agattttaga agcaagaaaa 240
 ggtaaacagt gcccatatta tttgagactg gctctgctgc cctccctaag ccagtttaca 300
 ttcttttgaga ttcttggagt gggtagtca gggctgaaga ctgcacaggc catgtcccct 360
 gctccaacta ttcctcagaa cgtcccagggt ggaggagtg gcctgtcgat tttcactcat 420
 tccatggagc tctgtgtaca tgaaaattcc tccaagtgtg gcttttgtcg aattcagaga 480
 tacagcaagc cagcataaaa acatggagt tagagcactg gtgtaoctag cttagaaaca 540
 cctcgggtga atgtggtact gtggctcgaa aggaagcaag ggacaggacc caggagactg 600
 ggcggccagg ctctcggagt tccacacaca cctgtgaagc ccggccagca cag 653

<210> 314
 <211> 513
 <212> DNA
 <213> Homo sapiens

<400> 314

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ctggaagatt ttgctgcatt tggcattata ctgtaattta cagtatacaa catctgggga 60
ctcagtaacta tcttagcaca gactaacttc tcccaactcg tcagagggtg caggtggcgg 120
gtcgggtgggg agggcctttt ctccccataa atgcctgaac ttttaatttat accatataag 180
aatcagtgga aaggtaaaca acaaggttaa tgtaactcta ttataaattt tgcatttttt 240
ttctctgtga catatacaag tatatttttg tttttggagc tataaattat ttaatttagc 300
aatcttcaaa gctcataaat ttcaactttt caaataagaa attttaactt caaataagaa 360
gtctaggact ttatggctat taattttact atcaaaaatat ccaagggact ccattcaatg 420
taatagttat aattcttcta aatatcattt gaataattct ttgtggacgc tagactcaag 480
actatgctac atccaaacag tacatctata acc 513

```

<210> 315

<211> 222

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 15

<223> n = A,T,C or G

<400> 315

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caaaaataga aaattttcta gtccatccta atctgaatgg tgctgtttct atattgggtca 120
ttgccttgca aacaggagct ccacaaaagc caggaagaga gactgcctcc ttggctgaaa 180
gagtcctttc aggaagggtg actgcattgg tttgatatgt tt 222

```

<210> 316

<211> 1633

<212> DNA

<213> Homo sapiens

<400> 316

```

cgtggaggca gctagcgcga ggctggggag cgctgagccg cgcgctcgtgc cctgcgctgc 60
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agacgtccgc ttatgccttc tttgtgcaga catgcagaga agaacataag aagaaaaacc 180
cagagggtccc tgtcaatttt gcggaatttt ccaagaagtg ctctgagagg tggaagacgg 240
tgtccgggaa agagaaatcc aaatttgatg aaatggcaaa ggcagataaa gtgcgctatg 300
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```



```

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```

<210> 318

<211> 3347

<212> DNA

<213> Homo sapiens

<400> 318

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<210> 319

<211> 1814

<212> DNA

<213> Homo sapiens

<400> 319

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<211> 3132

<212> DNA

<213> Homo sapiens

<400> 320

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<210> 321

<211> 2280

<212> DNA

<213> Homo sapiens

<400> 321

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<211> 1398

<212> DNA

<213> Homo sapiens

<400> 322

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<211> 1316
 <212> DNA
 <213> Homo sapiens

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 <212> PRT
 <213> Homo sapiens

<400> 324
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 35 40 45
 Trp Lys Thr Val Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala
 50 55 60
 Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro
 65 70 75 80
 Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro
 85 90 95
 Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys
 100 105 110
 Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly
 115 120 125
 Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr
 130 135 140
 Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr
 145 150 155 160

Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala
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 Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Gln Glu Glu Glu Glu
 180 185 190
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<210> 325
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 325
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 35 40 45
 Leu Lys Arg Ala Gln Ser Glu Leu Ala Ala His Gln Lys Lys Ile Leu
 50 55 60
 His Val Asp Asn His Ile Gly Ile Ser Ile Ala Gly Leu Thr Ala Asp
 65 70 75 80
 Ala Arg Leu Leu Cys Asn Phe Met Arg Gln Glu Cys Leu Asp Ser Arg
 85 90 95
 Phe Val Phe Asp Arg Pro Leu Pro Val Ser Arg Leu Val Ser Leu Ile
 100 105 110
 Gly Ser Lys Thr Gln Ile Pro Thr Gln Arg Tyr Gly Arg Arg Pro Tyr
 115 120 125
 Gly Val Gly Leu Leu Ile Ala Gly Tyr Asp Asp Met Gly Pro His Ile
 130 135 140
 Phe Gln Thr Cys Pro Ser Ala Asn Tyr Phe Asp Cys Arg Ala Met Ser
 145 150 155 160
 Ile Gly Ala Arg Ser Gln Ser Ala Arg Thr Tyr Leu Glu Arg His Met
 165 170 175
 Ser Glu Phe Met Glu Cys Asn Leu Asn Glu Leu Val Lys His Gly Leu
 180 185 190
 Arg Ala Leu Arg Glu Thr Leu Pro Ala Glu Gln Asp Leu Thr Thr Lys
 195 200 205
 Asn Val Ser Ile Gly Ile Val Gly Lys Asp Leu Glu Phe Thr Ile Tyr
 210 215 220
 Asp Asp Asp Asp Val Ser Pro Phe Leu Glu Gly Leu Glu Glu Arg Pro
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 Gln Arg Lys Ala Gln Pro Ala Gln Pro Ala Asp Glu Pro Ala Glu Lys
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 Ala Asp Glu Pro Met Glu His
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<210> 326
 <211> 539
 <212> PRT
 <213> Homo sapiens

<400> 326

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Ile	Arg	Phe	Ser	Asn	Ile	Ser	Ala	Ala	Lys	Ala	Val	Ala	Asp	Ala	Ile
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Arg	Thr	Ser	Leu	Gly	Pro	Lys	Gly	Met	Asp	Lys	Met	Ile	Gln	Asp	Gly
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Lys	Gly	Asp	Val	Thr	Ile	Thr	Asn	Asp	Gly	Ala	Thr	Ile	Leu	Lys	Gln
65					70					75					80
Met	Gln	Val	Leu	His	Pro	Ala	Ala	Arg	Met	Leu	Val	Glu	Leu	Ser	Lys
				85					90					95	
Ala	Gln	Asp	Ile	Glu	Ala	Gly	Asp	Gly	Thr	Thr	Ser	Val	Val	Ile	Ile
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Ala	Gly	Ser	Leu	Leu	Asp	Ser	Cys	Thr	Lys	Leu	Leu	Gln	Lys	Gly	Ile
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His	Pro	Thr	Ile	Ile	Ser	Glu	Ser	Phe	Gln	Lys	Ala	Leu	Glu	Lys	Gly
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145					150					155					160
Glu	Thr	Leu	Leu	Asn	Ser	Ala	Thr	Thr	Ser	Leu	Asn	Ser	Lys	Val	Val
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Ser	Gln	Tyr	Ser	Ser	Leu	Leu	Ser	Pro	Met	Ser	Val	Asn	Ala	Val	Met
		180						185					190		
Lys	Val	Ile	Asp	Pro	Ala	Thr	Ala	Thr	Ser	Val	Asp	Leu	Arg	Asp	Ile
		195					200					205			
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	210					215				220					
Glu	Gly	Leu	Val	Leu	Thr	Gln	Lys	Val	Ser	Asn	Ser	Gly	Ile	Thr	Arg
225					230					235					240
Val	Glu	Lys	Ala	Lys	Ile	Gly	Leu	Ile	Gln	Phe	Cys	Leu	Ser	Ala	Pro
				245					250					255	
Lys	Thr	Asp	Met	Asp	Asn	Gln	Ile	Val	Val	Ser	Asp	Tyr	Ala	Gln	Met
		260						265					270		
Asp	Arg	Val	Leu	Arg	Glu	Glu	Arg	Ala	Tyr	Ile	Leu	Asn	Leu	Val	Lys
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305					310					315					320
Lys	Ile	Met	Val	Ile	Lys	Asp	Ile	Glu	Arg	Glu	Asp	Ile	Glu	Phe	Ile
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Cys	Lys	Thr	Ile	Gly	Thr	Lys	Pro	Val	Ala	His	Ile	Asp	Gln	Phe	Thr
		340						345				350			
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		355					360					365			
Gly	Ser	Gly	Lys	Leu	Leu	Lys	Ile	Thr	Gly	Cys	Ala	Ser	Pro	Gly	Lys
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 435 440 445
 Tyr Cys Val Arg Ala Phe Ala Asp Ala Met Glu Val Ile Pro Ser Thr
 450 455 460
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 465 470 475 480
 Arg Asn Arg His Ala Gln Gly Glu Lys Thr Ala Gly Ile Asn Val Arg
 485 490 495
 Lys Gly Gly Ile Ser Asn Ile Leu Glu Glu Leu Val Val Gln Pro Leu
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 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 327
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 35 40 45
 Asn Pro Leu Val Leu Pro Glu Tyr Leu Ile His Ala Phe Phe Cys Val
 50 55 60
 Met Phe Leu Cys Ala Ala Glu Trp Leu Thr Leu Gly Leu Asn Met Pro
 65 70 75 80
 Leu Leu Ala Tyr His Ile Trp Arg Tyr Met Ser Arg Pro Val Met Ser
 85 90 95
 Gly Pro Gly Leu Tyr Asp Pro Thr Thr Ile Met Asn Ala Asp Ile Leu
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<210> 328
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 328
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 Asp Thr Phe Tyr Ile Lys Thr Ser Thr Thr Val Arg Thr Thr Glu Ile
 50 55 60
 Asn Phe Lys Val Gly Glu Phe Glu Glu Gln Thr Val Asp Gly Arg
 65 70 75 80
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 85 90 95
 Glu Gln Lys Leu Leu Lys Gly Glu Gly Pro Lys Thr Ser Trp Thr Arg
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<210> 329
 <211> 346
 <212> PRT
 <213> Homo sapiens

<400> 329
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 Leu Gly Val Arg Gly Ala Pro Cys Glu Ala Val Arg Ile Pro Met Cys
 20 25 30
 Arg His Met Pro Trp Asn Ile Thr Arg Met Pro Asn His Leu His His
 35 40 45
 Ser Thr Gln Glu Asn Ala Ile Leu Ala Ile Glu Gln Tyr Glu Glu Leu
 50 55 60
 Val Asp Val Asn Cys Ser Ala Val Leu Arg Phe Phe Phe Cys Ala Met
 65 70 75 80
 Tyr Ala Pro Ile Cys Thr Leu Glu Phe Leu His Asp Pro Ile Lys Pro
 85 90 95
 Cys Lys Ser Val Cys Gln Arg Ala Arg Asp Asp Cys Glu Pro Leu Met
 100 105 110
 Lys Met Tyr Asn His Ser Trp Pro Glu Ser Leu Ala Cys Asp Glu Leu
 115 120 125
 Pro Val Tyr Asp Arg Gly Val Cys Ile Ser Pro Glu Ala Ile Val Thr
 130 135 140
 Asp Leu Pro Glu Asp Val Lys Trp Ile Asp Ile Thr Pro Asp Met Met
 145 150 155 160
 Val Gln Glu Arg Pro Leu Asp Val Asp Cys Lys Arg Leu Ser Pro Asp
 165 170 175
 Arg Cys Lys Cys Lys Lys Val Lys Pro Thr Leu Ala Thr Tyr Leu Ser
 180 185 190
 Lys Asn Tyr Ser Tyr Val Ile His Ala Lys Ile Lys Ala Val Gln Arg
 195 200 205
 Ser Gly Cys Asn Glu Val Thr Thr Val Val Asp Val Lys Glu Ile Phe
 210 215 220
 Lys Ser Ser Ser Pro Ile Pro Arg Thr Gln Val Pro Leu Ile Thr Asn
 225 230 235 240
 Ser Ser Cys Gln Cys Pro His Ile Leu Pro His Gln Asp Val Leu Ile
 245 250 255

Met Cys Tyr Glu Trp Arg Ser Arg Met Met Leu Leu Glu Asn Cys Leu
 260 265 270
 Val Glu Lys Trp Arg Asp Gln Leu Ser Lys Arg Ser Ile Gln Trp Glu
 275 280 285
 Glu Arg Leu Gln Glu Gln Arg Arg Thr Val Gln Asp Lys Lys Lys Thr
 290 295 300
 Ala Gly Arg Thr Ser Arg Ser Asn Pro Pro Lys Pro Lys Gly Lys Pro
 305 310 315 320
 Pro Ala Pro Lys Pro Ala Ser Pro Lys Lys Asn Ile Lys Thr Arg Ser
 325 330 335
 Ala Gln Lys Arg Thr Asn Pro Lys Arg Val
 340 345

<210> 330
 <211> 826
 <212> PRT
 <213> Homo sapiens

<400> 330
 Met Glu Gly Ala Gly Gly Ala Asn Asp Lys Lys Lys Ile Ser Ser Glu
 1 5 10 15
 Arg Arg Lys Glu Lys Ser Arg Asp Ala Arg Ser Arg Arg Ser Lys
 20 25 30
 Glu Ser Glu Val Phe Tyr Glu Leu Ala His Gln Leu Pro Leu Pro His
 35 40 45
 Asn Val Ser Ser His Leu Asp Lys Ala Ser Val Met Arg Leu Thr Ile
 50 55 60
 Ser Tyr Leu Arg Val Arg Lys Leu Leu Asp Ala Gly Asp Leu Asp Ile
 65 70 75 80
 Glu Asp Asp Met Lys Ala Gln Met Asn Cys Phe Tyr Leu Lys Ala Leu
 85 90 95
 Asp Gly Phe Val Met Val Leu Thr Asp Asp Gly Asp Met Ile Tyr Ile
 100 105 110
 Ser Asp Asn Val Asn Lys Tyr Met Gly Leu Thr Gln Phe Glu Leu Thr
 115 120 125
 Gly His Ser Val Phe Asp Phe Thr His Pro Cys Asp His Glu Glu Met
 130 135 140
 Arg Glu Met Leu Thr His Arg Asn Gly Leu Val Lys Lys Gly Lys Glu
 145 150 155 160
 Gln Asn Thr Gln Arg Ser Phe Phe Leu Arg Met Lys Cys Thr Leu Thr
 165 170 175
 Ser Arg Gly Arg Thr Met Asn Ile Lys Ser Ala Thr Trp Lys Val Leu
 180 185 190
 His Cys Thr Gly His Ile His Val Tyr Asp Thr Asn Ser Asn Gln Pro
 195 200 205
 Gln Cys Gly Tyr Lys Lys Pro Pro Met Thr Cys Leu Val Leu Ile Cys
 210 215 220
 Glu Pro Ile Pro His Pro Ser Asn Ile Glu Ile Pro Leu Asp Ser Lys
 225 230 235 240
 Thr Phe Leu Ser Arg His Ser Leu Asp Met Lys Phe Ser Tyr Cys Asp
 245 250 255
 Glu Arg Ile Thr Glu Leu Met Gly Tyr Glu Pro Glu Glu Leu Leu Gly
 260 265 270

Arg Ser Ile Tyr Glu Tyr Tyr His Ala Leu Asp Ser Asp His Leu Thr
 275 280 285
 Lys Thr His His Asp Met Phe Thr Lys Gly Gln Val Thr Thr Gly Gln
 290 295 300
 Tyr Arg Met Leu Ala Lys Arg Gly Gly Tyr Val Trp Val Glu Thr Gln
 305 310 315 320
 Ala Thr Val Ile Tyr Asn Thr Lys Asn Ser Gln Pro Gln Cys Ile Val
 325 330 335
 Cys Val Asn Tyr Val Val Ser Gly Ile Ile Gln His Asp Leu Ile Phe
 340 345 350
 Ser Leu Gln Gln Thr Glu Cys Val Leu Lys Pro Val Glu Ser Ser Asp
 355 360 365
 Met Lys Met Thr Gln Leu Phe Thr Lys Val Glu Ser Glu Asp Thr Ser
 370 375 380
 Ser Leu Phe Asp Lys Leu Lys Lys Glu Pro Asp Ala Leu Thr Leu Leu
 385 390 395 400
 Ala Pro Ala Ala Gly Asp Thr Ile Ile Ser Leu Asp Phe Gly Ser Asn
 405 410 415
 Asp Thr Glu Thr Asp Asp Gln Gln Leu Glu Glu Val Pro Leu Tyr Asn
 420 425 430
 Asp Val Met Leu Pro Ser Pro Asn Glu Lys Leu Gln Asn Ile Asn Leu
 435 440 445
 Ala Met Ser Pro Leu Pro Thr Ala Glu Thr Pro Lys Pro Leu Arg Ser
 450 455 460
 Ser Ala Asp Pro Ala Leu Asn Gln Glu Val Ala Leu Lys Leu Glu Pro
 465 470 475 480
 Asn Pro Glu Ser Leu Glu Leu Ser Phe Thr Met Pro Gln Ile Gln Asp
 485 490 495
 Gln Thr Pro Ser Pro Ser Asp Gly Ser Thr Arg Gln Ser Ser Pro Glu
 500 505 510
 Pro Asn Ser Pro Ser Glu Tyr Cys Phe Tyr Val Asp Ser Asp Met Val
 515 520 525
 Asn Glu Phe Lys Leu Glu Leu Val Glu Lys Leu Phe Ala Glu Asp Thr
 530 535 540
 Glu Ala Lys Asn Pro Phe Ser Thr Gln Asp Thr Asp Leu Asp Leu Glu
 545 550 555 560
 Met Leu Ala Pro Tyr Ile Pro Met Asp Asp Phe Gln Leu Arg Ser
 565 570 575
 Phe Asp Gln Leu Ser Pro Leu Glu Ser Ser Ala Ser Pro Glu Ser
 580 585 590
 Ala Ser Pro Gln Ser Thr Val Thr Val Phe Gln Gln Thr Gln Ile Gln
 595 600 605
 Glu Pro Thr Ala Asn Ala Thr Thr Thr Thr Ala Thr Thr Asp Glu Leu
 610 615 620
 Lys Thr Val Thr Lys Asp Arg Met Glu Asp Ile Lys Ile Leu Ile Ala
 625 630 635 640
 Ser Pro Ser Pro Thr His Ile His Lys Glu Thr Thr Ser Ala Thr Ser
 645 650 655
 Ser Pro Tyr Arg Asp Thr Gln Ser Arg Thr Ala Ser Pro Asn Arg Ala
 660 665 670
 Gly Lys Gly Val Ile Glu Gln Thr Glu Lys Ser His Pro Arg Ser Pro
 675 680 685
 Asn Val Leu Ser Val Ala Leu Ser Gln Arg Thr Thr Val Pro Glu Glu
 690 695 700

Ala Cys Asp Asp Ala Cys Trp Arg Ile Glu Lys Val Pro Lys Val Cys
85 90 95
Arg Leu Gln Val Ser Val Asp Asp Gln Cys Glu Gly Ser Thr Glu Lys
100 105 110
Tyr Phe Phe Asn Leu Ser Ser Met Thr Cys Glu Lys Phe Phe Ser Gly
115 120 125
Gly Cys His Arg Asn Arg Ile Glu Asn Arg Phe Pro Asp Glu Ala Thr
130 135 140
Cys Met Gly Phe Cys Ala Pro Lys Lys Ile Pro Ser Phe Cys Tyr Ser
145 150 155 160
Pro Lys Asp Glu Gly Leu Cys Ser Ala Asn Val Thr Arg Tyr Tyr Phe
165 170 175
Asn Pro Arg Tyr Arg Thr Cys Asp Ala Phe Thr Tyr Thr Gly Cys Gly
180 185 190
Gly Asn Asp Asn Asn Phe Val Ser Arg Glu Asp Cys Lys Arg Ala Cys
195 200 205
Ala Lys Ala Leu Lys Lys Lys Lys Lys Met Pro Lys Leu Arg Phe Ala
210 215 220
Ser Arg Ile Arg Lys Ile Arg Lys Lys Gln Phe
225 230 235

<210> 333

<211> 291

<212> PRT

<213> Homo sapiens

<400> 333

Met Gln Arg Ala Arg Pro Thr Leu Trp Ala Ala Ala Leu Thr Leu Leu
1 5 10 15
Val Leu Leu Arg Gly Pro Pro Val Ala Arg Ala Gly Ala Ser Ser Gly
20 25 30
Gly Leu Gly Pro Val Val Arg Cys Glu Pro Cys Asp Ala Arg Ala Leu
35 40 45
Ala Gln Cys Ala Pro Pro Pro Ala Val Cys Ala Glu Leu Val Arg Glu
50 55 60
Pro Gly Cys Gly Cys Cys Leu Thr Cys Ala Leu Ser Glu Gly Gln Pro
65 70 75 80
Cys Gly Ile Tyr Thr Glu Arg Cys Gly Ser Gly Leu Arg Cys Gln Pro
85 90 95
Ser Pro Asp Glu Ala Arg Pro Leu Gln Ala Leu Leu Asp Gly Arg Gly
100 105 110
Leu Cys Val Asn Ala Ser Ala Val Ser Arg Leu Arg Ala Tyr Leu Leu
115 120 125
Pro Ala Pro Pro Ala Pro Gly Asn Ala Ser Glu Ser Glu Glu Asp Arg
130 135 140
Ser Ala Gly Ser Val Glu Ser Pro Ser Val Ser Ser Thr His Arg Val
145 150 155 160
Ser Asp Pro Lys Phe His Pro Leu His Ser Lys Ile Ile Ile Ile Lys
165 170 175
Lys Gly His Ala Lys Asp Ser Gln Arg Tyr Lys Val Asp Tyr Glu Ser
180 185 190
Gln Ser Thr Asp Thr Gln Asn Phe Ser Ser Glu Ser Lys Arg Glu Thr
195 200 205

Gly Asn Pro Pro Pro Glu Glu Phe Leu Phe Tyr Leu Pro Gly Gln Pro
 275 280 285
 Glu Gly Ile Arg Ser Ser Asn Thr Tyr Thr Leu Thr Asp Val Arg Arg
 290 295 300
 Asn Ala Thr Gly Asp Tyr Lys Cys Ser Leu Ile Asp Lys Lys Ser Met
 305 310 315 320
 Ile Ala Ser Thr Ala Ile Thr Val His Tyr Leu Asp Leu Ser Leu Asn
 325 330 335
 Pro Ser Gly Glu Val Thr Arg Gln Ile Gly Asp Ala Leu Pro Val Ser
 340 345 350
 Cys Thr Ile Ser Ala Ser Arg Asn Ala Thr Val Val Trp Met Lys Asp
 355 360 365
 Asn Ile Arg Leu Arg Ser Ser Pro Ser Phe Ser Ser Leu His Tyr Gln
 370 375 380
 Asp Ala Gly Asn Tyr Val Cys Glu Thr Ala Leu Gln Glu Val Glu Gly
 385 390 395 400
 Leu Lys Lys Arg Glu Ser Leu Thr Leu Ile Val Glu Gly Lys Pro Gln
 405 410 415
 Ile Lys Met Thr Lys Lys Thr Asp Pro Ser Gly Leu Ser Lys Thr Ile
 420 425 430
 Ile Cys His Val Glu Gly Phe Pro Lys Pro Ala Ile Gln Trp Thr Ile
 435 440 445
 Thr Gly Ser Gly Ser Val Ile Asn Gln Thr Glu Glu Ser Pro Tyr Ile
 450 455 460
 Asn Gly Arg Tyr Tyr Ser Lys Ile Ile Ile Ser Pro Glu Glu Asn Val
 465 470 475 480
 Thr Leu Thr Cys Thr Ala Glu Asn Gln Leu Glu Arg Thr Val Asn Ser
 485 490 495
 Leu Asn Val Ser Ala Ile Ser Ile Pro Glu His Asp Glu Ala Asp Glu
 500 505 510
 Ile Ser Asp Glu Asn Arg Glu Lys Val Asn Asp Gln Ala Lys Leu Ile
 515 520 525
 Val Gly Ile Val Val Gly Leu Leu Leu Ala Ala Leu Val Ala Gly Val
 530 535 540
 Val Tyr Trp Leu Tyr Met Lys Lys Ser Lys Thr Ala Ser Lys His Val
 545 550 555 560
 Asn Lys Asp Leu Gly Asn Met Glu Glu Asn Lys Lys Leu Glu Glu Asn
 565 570 575
 Asn His Lys Thr Glu Ala
 580

<210> 335
 <211> 709
 <212> PRT
 <213> Homo sapiens

<400> 335
 Met Ala Glu Val Glu Asp Gln Ala Ala Arg Asp Met Lys Arg Leu Glu
 1 5 10 15
 Glu Lys Asp Lys Glu Arg Lys Asn Val Lys Gly Ile Arg Asp Asp Ile
 20 25 30
 Glu Glu Glu Asp Asp Gln Glu Ala Tyr Phe Arg Tyr Met Ala Glu Asn
 35 40 45

Pro	Thr	Ala	Gly	Val	Val	Gln	Glu	Glu	Glu	Glu	Asp	Asn	Leu	Glu	Tyr	50	55	60
Asp	Ser	Asp	Gly	Asn	Pro	Ile	Ala	Pro	Thr	Lys	Lys	Ile	Ile	Asp	Pro	65	70	75
Leu	Pro	Pro	Ile	Asp	His	Ser	Glu	Ile	Asp	Tyr	Pro	Pro	Phe	Glu	Lys	85	90	95
Asn	Phe	Tyr	Asn	Glu	His	Glu	Glu	Ile	Thr	Asn	Leu	Thr	Pro	Gln	Gln	100	105	110
Leu	Ile	Asp	Leu	Arg	His	Lys	Leu	Asn	Leu	Arg	Val	Ser	Gly	Ala	Ala	115	120	125
Pro	Pro	Arg	Pro	Gly	Ser	Ser	Phe	Ala	His	Phe	Gly	Phe	Asp	Glu	Gln	130	135	140
Leu	Met	His	Gln	Ile	Arg	Lys	Ser	Glu	Tyr	Thr	Gln	Pro	Thr	Pro	Ile	145	150	155
Gln	Cys	Gln	Gly	Val	Pro	Val	Ala	Leu	Ser	Gly	Arg	Asp	Met	Ile	Gly	165	170	175
Ile	Ala	Lys	Thr	Gly	Ser	Gly	Lys	Thr	Ala	Ala	Phe	Ile	Trp	Pro	Met	180	185	190
Leu	Ile	His	Ile	Met	Asp	Gln	Lys	Glu	Leu	Glu	Pro	Gly	Asp	Gly	Pro	195	200	205
Ile	Ala	Val	Ile	Val	Cys	Pro	Thr	Arg	Glu	Leu	Cys	Gln	Gln	Ile	His	210	215	220
Ala	Glu	Cys	Lys	Arg	Phe	Gly	Lys	Ala	Tyr	Asn	Leu	Arg	Ser	Val	Ala	225	230	235
Val	Tyr	Gly	Gly	Gly	Ser	Met	Trp	Glu	Gln	Ala	Lys	Ala	Leu	Gln	Glu	245	250	255
Gly	Ala	Glu	Ile	Val	Val	Cys	Thr	Pro	Gly	Arg	Leu	Ile	Asp	His	Val	260	265	270
Lys	Lys	Lys	Ala	Thr	Asn	Leu	Gln	Arg	Val	Ser	Tyr	Leu	Val	Phe	Asp	275	280	285
Glu	Ala	Asp	Arg	Met	Phe	Asp	Met	Gly	Phe	Glu	Tyr	Gln	Val	Arg	Ser	290	295	300
Ile	Ala	Ser	His	Val	Arg	Pro	Asp	Arg	Gln	Thr	Leu	Leu	Phe	Ser	Ala	305	310	315
Thr	Phe	Arg	Lys	Lys	Ile	Glu	Lys	Leu	Ala	Arg	Asp	Ile	Leu	Ile	Asp	325	330	335
Pro	Ile	Arg	Val	Val	Gln	Gly	Asp	Ile	Gly	Glu	Ala	Asn	Glu	Asp	Val	340	345	350
Thr	Gln	Ile	Val	Glu	Ile	Leu	His	Ser	Gly	Pro	Ser	Lys	Trp	Asn	Trp	355	360	365
Leu	Thr	Arg	Arg	Leu	Val	Glu	Phe	Thr	Ser	Ser	Gly	Ser	Val	Leu	Leu	370	375	380
Phe	Val	Thr	Lys	Lys	Ala	Asn	Ala	Glu	Glu	Leu	Ala	Asn	Asn	Leu	Lys	385	390	395
Gln	Glu	Gly	His	Asn	Leu	Gly	Leu	Leu	His	Gly	Asp	Met	Asp	Gln	Ser	405	410	415
Glu	Arg	Asn	Lys	Val	Ile	Ser	Asp	Phe	Lys	Lys	Lys	Asp	Ile	Pro	Val	420	425	430
Leu	Val	Ala	Thr	Asp	Val	Ala	Ala	Arg	Gly	Leu	Asp	Ile	Pro	Ser	Ile	435	440	445
Lys	Thr	Val	Ile	Asn	Tyr	Asp	Val	Ala	Arg	Asp	Ile	Asp	Thr	His	Thr	450	455	460
His	Arg	Ile	Gly	Arg	Thr	Gly	Arg	Ala	Gly	Glu	Lys	Gly	Val	Ala	Tyr	465	470	475
																480		

Thr Leu Leu Thr Pro Lys Asp Ser Asn Phe Ala Gly Asp Leu Val Arg
 485 490 495
 Asn Leu Glu Gly Ala Asn Gln His Val Ser Lys Glu Leu Leu Asp Leu
 500 505 510
 Ala Met Gln Asn Ala Trp Phe Arg Lys Ser Arg Phe Lys Gly Gly Lys
 515 520 525
 Gly Lys Lys Leu Asn Ile Gly Gly Gly Leu Gly Tyr Arg Glu Arg
 530 535 540
 Pro Gly Leu Gly Ser Glu Asn Met Asp Arg Gly Asn Asn Asn Val Met
 545 550 555 560
 Ser Asn Tyr Glu Ala Tyr Lys Pro Ser Thr Gly Ala Met Gly Asp Arg
 565 570 575
 Leu Thr Ala Met Lys Ala Ala Phe Gln Ser Gln Tyr Lys Ser His Phe
 580 585 590
 Val Ala Ala Ser Leu Ser Asn Gln Lys Ala Gly Ser Ser Ala Ala Gly
 595 600 605
 Ala Ser Gly Trp Thr Ser Ala Gly Ser Leu Asn Ser Val Pro Thr Asn
 610 615 620
 Ser Ala Gln Gln Gly His Asn Ser Pro Asp Ser Pro Val Thr Ser Ala
 625 630 635 640
 Ala Lys Gly Ile Pro Gly Phe Gly Asn Thr Gly Asn Ile Ser Gly Ala
 645 650 655
 Pro Val Thr Tyr Pro Ser Ala Gly Ala Gln Gly Val Asn Asn Thr Ala
 660 665 670
 Ser Gly Asn Asn Ser Arg Glu Gly Thr Gly Gly Ser Asn Gly Lys Arg
 675 680 685
 Glu Arg Tyr Thr Glu Asn Arg Gly Ser Ser Pro Ser Gln Ser Arg Arg
 690 695 700
 Asp Trp Gln Ser Ala
 705

<210> 336
 <211> 480
 <212> PRT
 <213> Homo sapiens

<400> 336
 Met Ile Arg Ala Ala Pro Pro Pro Leu Phe Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Leu Val Ser Trp Ala Ser Arg Gly Glu Ala Ala Pro Asp Gln
 20 25 30
 Asp Glu Ile Gln Arg Leu Pro Gly Leu Ala Lys Gln Pro Ser Phe Arg
 35 40 45
 Gln Tyr Ser Gly Tyr Leu Lys Ser Ser Gly Ser Lys His Leu His Tyr
 50 55 60
 Trp Phe Val Glu Ser Gln Lys Asp Pro Glu Asn Ser Pro Val Val Leu
 65 70 75 80
 Trp Leu Asn Gly Gly Pro Gly Cys Ser Ser Leu Asp Gly Leu Leu Thr
 85 90 95
 Glu His Gly Pro Phe Leu Val Gln Pro Asp Gly Val Thr Leu Glu Tyr
 100 105 110
 Asn Pro Tyr Ser Trp Asn Leu Ile Ala Asn Val Leu Tyr Leu Glu Ser
 115 120 125

Pro Ala Gly Val Gly Phe Ser Tyr Ser Asp Asp Lys Phe Tyr Ala Thr
 130 135 140
 Asn Asp Thr Glu Val Ala Gln Ser Asn Phe Glu Ala Leu Gln Asp Phe
 145 150 155 160
 Phe Arg Leu Phe Pro Glu Tyr Lys Asn Asn Lys Leu Phe Leu Thr Gly
 165 170 175
 Glu Ser Tyr Ala Gly Ile Tyr Ile Pro Thr Leu Ala Val Leu Val Met
 180 185 190
 Gln Asp Pro Ser Met Asn Leu Gln Gly Leu Ala Val Gly Asn Gly Leu
 195 200 205
 Ser Ser Tyr Glu Gln Asn Asp Asn Ser Leu Val Tyr Phe Ala Tyr Tyr
 210 215 220
 His Gly Leu Leu Gly Asn Arg Leu Trp Ser Ser Leu Gln Thr His Cys
 225 230 235 240
 Cys Ser Gln Asn Lys Cys Asn Phe Tyr Asp Asn Lys Asp Leu Glu Cys
 245 250 255
 Val Thr Asn Leu Gln Glu Val Ala Arg Ile Val Gly Asn Ser Gly Leu
 260 265 270
 Asn Ile Tyr Asn Leu Tyr Ala Pro Cys Ala Gly Gly Val Pro Ser His
 275 280 285
 Phe Arg Tyr Glu Lys Asp Thr Val Val Val Gln Asp Leu Gly Asn Ile
 290 295 300
 Phe Thr Arg Leu Pro Leu Lys Arg Met Trp His Gln Ala Leu Leu Arg
 305 310 315 320
 Ser Gly Asp Lys Val Arg Met Asp Pro Pro Cys Thr Asn Thr Thr Ala
 325 330 335
 Ala Ser Thr Tyr Leu Asn Asn Pro Tyr Val Arg Lys Ala Leu Asn Ile
 340 345 350
 Pro Glu Gln Leu Pro Gln Trp Asp Met Cys Asn Phe Leu Val Asn Leu
 355 360 365
 Gln Tyr Arg Arg Leu Tyr Arg Ser Met Asn Ser Gln Tyr Leu Lys Leu
 370 375 380
 Leu Ser Ser Gln Lys Tyr Gln Ile Leu Leu Tyr Asn Gly Asp Val Asp
 385 390 395 400
 Met Ala Cys Asn Phe Met Gly Asp Glu Trp Phe Val Asp Ser Leu Asn
 405 410 415
 Gln Lys Met Glu Val Gln Arg Arg Pro Trp Leu Val Lys Tyr Gly Asp
 420 425 430
 Ser Gly Glu Gln Ile Ala Gly Phe Val Lys Glu Phe Ser His Ile Ala
 435 440 445
 Phe Leu Thr Ile Lys Gly Ala Gly His Met Val Pro Thr Asp Lys Pro
 450 455 460
 Leu Ala Ala Phe Thr Met Phe Ser Arg Phe Leu Asn Lys Gln Pro Tyr
 465 470 475 480

<210> 337

<211> 543

<212> PRT

<213> Homo sapiens

<400> 337

Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile
 1 5 10 15

Ser	Asp	Pro	Phe	Gly	Ser	Phe	Pro	His	Ser	Pro	Thr	Met	Asp	Asn	Tyr
			20					25					30		
Pro	Lys	Leu	Glu	Glu	Met	Met	Leu	Leu	Ser	Asn	Gly	Ala	Pro	Gln	Phe
		35					40					45			
Leu	Gly	Ala	Ala	Gly	Ala	Pro	Glu	Gly	Ser	Gly	Ser	Asn	Ser	Ser	Ser
	50					55					60				
Ser	Ser	Ser	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Ser	Asn	Ser	Ser
65					70					75					80
Ser	Ser	Ser	Ser	Thr	Phe	Asn	Pro	Gln	Ala	Asp	Thr	Gly	Glu	Gln	Pro
				85					90					95	
Tyr	Glu	His	Leu	Thr	Ala	Glu	Ser	Phe	Pro	Asp	Ile	Ser	Leu	Asn	Asn
			100					105					110		
Glu	Lys	Val	Leu	Val	Glu	Thr	Ser	Tyr	Pro	Ser	Gln	Thr	Thr	Arg	Leu
		115					120					125			
Pro	Pro	Ile	Thr	Tyr	Thr	Gly	Arg	Phe	Ser	Leu	Glu	Pro	Ala	Pro	Asn
		130				135						140			
Ser	Gly	Asn	Thr	Leu	Trp	Pro	Glu	Pro	Leu	Phe	Ser	Leu	Val	Ser	Gly
145					150					155					160
Leu	Val	Ser	Met	Thr	Asn	Pro	Pro	Ala	Ser	Ser	Ser	Ser	Ala	Pro	Ser
				165					170					175	
Pro	Ala	Ala	Ser	Ser	Ala	Ser	Ala	Ser	Gln	Ser	Pro	Pro	Leu	Ser	Cys
			180					185					190		
Ala	Val	Pro	Ser	Asn	Asp	Ser	Ser	Pro	Ile	Tyr	Ser	Ala	Ala	Pro	Thr
		195					200					205			
Phe	Pro	Thr	Pro	Asn	Thr	Asp	Ile	Phe	Pro	Glu	Pro	Gln	Ser	Gln	Ala
		210				215						220			
Phe	Pro	Gly	Ser	Ala	Gly	Thr	Ala	Leu	Gln	Tyr	Pro	Pro	Pro	Ala	Tyr
225					230					235					240
Pro	Ala	Ala	Lys	Gly	Gly	Phe	Gln	Val	Pro	Met	Ile	Pro	Asp	Tyr	Leu
				245					250					255	
Phe	Pro	Gln	Gln	Gln	Gly	Asp	Leu	Gly	Leu	Gly	Thr	Pro	Asp	Gln	Lys
			260					265					270		
Pro	Phe	Gln	Gly	Leu	Glu	Ser	Arg	Thr	Gln	Gln	Pro	Ser	Leu	Thr	Pro
		275					280					285			
Leu	Ser	Thr	Ile	Lys	Ala	Phe	Ala	Thr	Gln	Ser	Gly	Ser	Gln	Asp	Leu
		290				295					300				
Lys	Ala	Leu	Asn	Thr	Ser	Tyr	Gln	Ser	Gln	Leu	Ile	Lys	Pro	Ser	Arg
305					310					315					320
Met	Arg	Lys	Tyr	Pro	Asn	Arg	Pro	Ser	Lys	Thr	Pro	Pro	His	Glu	Arg
				325					330					335	
Pro	Tyr	Ala	Cys	Pro	Val	Glu	Ser	Cys	Asp	Arg	Arg	Phe	Ser	Arg	Ser
			340					345					350		
Asp	Glu	Leu	Thr	Arg	His	Ile	Arg	Ile	His	Thr	Gly	Gln	Lys	Pro	Phe
		355					360					365			
Gln	Cys	Arg	Ile	Cys	Met	Arg	Asn	Phe	Ser	Arg	Ser	Asp	His	Leu	Thr
		370				375					380				
Thr	His	Ile	Arg	Thr	His	Thr	Gly	Glu	Lys	Pro	Phe	Ala	Cys	Asp	Ile
385					390					395					400
Cys	Gly	Arg	Lys	Phe	Ala	Arg	Ser	Asp	Glu	Arg	Lys	Arg	His	Thr	Lys
				405					410					415	
Ile	His	Leu	Arg	Gln	Lys	Asp	Lys	Lys	Ala	Asp	Lys	Ser	Val	Val	Ala
			420					425					430		
Ser	Ser	Ala	Thr	Ser	Ser	Leu	Ser	Ser	Tyr	Pro	Ser	Pro	Val	Ala	Thr
		435					440					445			

1001754-102901

Glu Ser Gly Met Lys Ser Ser Lys Ser Lys Asp Val Leu Ser Ala Ala
 50 55 60
 Glu Val Met Gln Trp Ser Gln Ser Leu Glu Lys Leu Leu Ala Asn Gln
 65 70 75 80
 Thr Gly Gln Asn Val Phe Gly Ser Phe Leu Lys Ser Glu Phe Ser Glu
 85 90 95
 Glu Asn Ile Glu Phe Trp Leu Ala Cys Glu Asp Tyr Lys Lys Thr Glu
 100 105 110
 Ser Asp Leu Leu Pro Cys Lys Ala Glu Glu Ile Tyr Lys Ala Phe Val
 115 120 125
 His Ser Asp Ala Ala Lys Gln Ile Asn Ile Asp Phe Arg Thr Arg Glu
 130 135 140
 Ser Thr Ala Lys Lys Ile Lys Ala Pro Thr Pro Thr Cys Phe Asp Glu
 145 150 155 160
 Ala Gln Lys Val Ile Tyr Thr Leu Met Glu Lys Asp Ser Tyr Pro Arg
 165 170 175
 Phe Leu Lys Ser Asp Ile Tyr Leu Asn Leu Leu Asn Asp Leu Gln Ala
 180 185 190
 Asn Ser Leu Lys
 195

<210> 340
 <211> 316
 <212> PRT
 <213> Homo sapiens

<400> 340
 Met Ala Thr Phe Val Glu Leu Ser Thr Lys Ala Lys Met Pro Ile Val
 1 5 10 15
 Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu Ala Val
 20 25 30
 Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala Tyr Val
 35 40 45
 Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys Ile Gln
 50 55 60
 Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys Leu Trp
 65 70 75 80
 Pro Thr Phe Phe Glu Arg Pro Leu Val Arg Lys Ala Phe Glu Lys Thr
 85 90 95
 Leu Lys Asp Leu Lys Leu Ser Tyr Leu Asp Val Tyr Leu Ile His Trp
 100 105 110
 Pro Gln Gly Phe Lys Ser Gly Asp Asp Leu Phe Pro Lys Asp Asp Lys
 115 120 125
 Gly Asn Ala Ile Gly Gly Lys Ala Thr Phe Leu Asp Ala Trp Glu Ala
 130 135 140
 Met Glu Glu Leu Val Asp Glu Gly Leu Val Lys Ala Leu Gly Val Ser
 145 150 155 160
 Asn Phe Ser His Phe Gln Ile Glu Lys Leu Leu Asn Lys Pro Gly Leu
 165 170 175
 Lys Tyr Lys Pro Val Thr Asn Gln Val Glu Cys His Pro Tyr Leu Thr
 180 185 190
 Gln Glu Lys Leu Ile Gln Tyr Cys His Ser Lys Gly Ile Thr Val Thr
 195 200 205

Ala Tyr Ser Pro Leu Gly Ser Pro Asp Arg Pro Trp Ala Lys Pro Glu
 210 215 220
 Asp Pro Ser Leu Leu Glu Asp Pro Lys Ile Lys Glu Ile Ala Ala Lys
 225 230 235 240
 His Lys Lys Thr Ala Ala Gln Val Leu Ile Arg Phe His Ile Gln Arg
 245 250 255
 Asn Val Ile Val Ile Pro Lys Ser Val Thr Pro Ala Arg Ile Val Glu
 260 265 270
 Asn Ile Gln Val Phe Asp Phe Lys Leu Ser Asp Glu Glu Met Ala Thr
 275 280 285
 Ile Leu Ser Phe Asn Arg Asn Trp Arg Ala Cys Asn Val Leu Gln Ser
 290 295 300
 Ser His Leu Glu Asp Tyr Pro Phe Asn Ala Glu Tyr
 305 310 315

<210> 341
 <211> 422
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 6, 10, 13, 15, 29
 <223> n = A,T,C or G

<400> 341
 gatganattt ttncnagaga gaggaagang ctattcagtt ggatgggatt aaatgcatca 60
 caaataagag aacttagaga gaagtcggaa aagtttgctt tccaagcccg aagttaacag 120
 aatgatgaaa cttatcatca attcattgta taaaaataaa gagattttcc tgagagaact 180
 gatttcaaatt gcttctgatg ctttagataa gataaggcta atatcactga ctgatgaaaa 240
 tgctctttct ggaaatgagg aactaacagt caaaattaag tgtgataagg agaagacctg 300
 ctgcatgtca cagacaccgg tgtaggaatg accagagaag agttgggtta aaaccttggt 360
 accatagcca aatctgggac aagcgagttt ttaaacaata tgactgaagc acaggaagat 420
 gg 422

<210> 342
 <211> 472
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 109
 <223> n = A,T,C or G

<400> 342
 ctggagaagg tgtgcagggg aaaccctgct gatgtcaccg aggccagggt gtctttctac 60
 tcgggacact cttcctttgg gatgtactgc atggtgttct tggcgctgna tgtgcaggca 120
 cgactctgtt ggaagtgggc acggctgctg cgaccacacag tccagttctt cctgggtggc 180
 tttgccctct acgtgggcta caccgcgctg tctgattaca aacaccactg gagcgatgtc 240
 cttgttggcc tcctgcaggg ggcaactggt gctgccctca ctgtctgcta catctcagac 300
 ttctctaaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360
 agcctgtcac tgacgttgac cctgggcgag gctgaccaca accactatgg ataccgcac 420

tctctctcct gaggccggac cccgcccagg cagggagcta ctgtgagtcc ag 472

<210> 343

<211> 139

<212> DNA

<213> Homo sapiens

<400> 343

gtcctggggc ttccccttcc ctcaagccag ggctcctcct cctgtcgtgg gtcattgtg 60
 accactggcc tctctacagc acggcctgtg gcctgttcaa ggcagaacca cgacccttga 120
 ctcccgggtg gggaggtg 139

<210> 344

<211> 235

<212> DNA

<213> Homo sapiens

<400> 344

ctgcgggctc agcacagtag acatgactgg gatccccacc ttggacaacc tccagaaggg 60
 agtccaatth gctctcaagt accagtcgct gggccagtgt gtttaactgc attgtaaggc 120
 tgggcgctcc aggagtgcc ctatgggtggc agcatacctg attcagggtgc acaaattggag 180
 tccagaggag gctgtaagag ccacgcgcaa gatccggtca tacatccaca tcagg 235

<210> 345

<211> 458

<212> DNA

<213> Homo sapiens

<400> 345

ctgtaagggtg ctattcagtc ctgtgaccct tatthttggaa tgcctttcat tactgttgct 60
 ctgtthttgtg acttcctggg aaaccgccta ctttgggtgtg gtgtcacctt gagctgtgca 120
 cataggacac cagthtttgac ttaacctaac aggcagthtt tatctctagc thtttcaagc 180
 caggthattga gcagthttctt ggccaatggc ctgagaaaacc acctgtccct gtcaaggggt 240
 gattthatttg gthtttaagt ggggaagtaat cccatgtact tathttcttaa atacctagga 300
 agthttctctt ggtggctcct cttggccctc cctctthttt cccccaaccc accatcctgc 360
 aaggcaagga atggcctctc cctccacaga ggcaacggct gcagagggag cactgtgggt 420
 gccatcccag thctctttca aagccaaaca gacacgcg 458

<210> 346

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 41, 42, 47, 48, 49, 161, 316, 324, 326, 327, 379, 455, 509

<223> n = A,T,C or G

<400> 346

ccagagcaca acgcctcacc atggactgga cctggaggat nntcttnnng gtggcagcag 60
 ccacaggtgt ccaactccaa gcccaacttg tgcagttctg ggctgaggag aagaagcctg 120
 gggcctcagt gactathttct tgtaaggctt ctggatatat ncttactaaa tatactttac 180
 attgggtgag ccaggccccc cccggacaaa gacctgaatg ggtgggatgg atcaacactg 240
 gcattgatac cgttaaatat tcacagaagt ttcaggacag agttctcatt acctgggact 300

catccgcgac cacagnctac ctgnanntga gtagcctgga atccgaagac acggctgtgt 360
 attactgtgc gagacttang gcccggttcgc tgtggtggga cttaatgacg cttttgacat 420
 ctggggccaa gggacagtgg tcaccgtctc ttcanggagt gcattcgccc caaccctttt 480
 cccctctctt cctgtgaaga attccccgnc ggatacgagc agcgt 525

<210> 347

<211> 423

<212> DNA

<213> Homo sapiens

<400> 347

ccagacgctg acttgtttct gagtccttaa gcaggaagga tttgaaatcc tggagcttgg 60
 cagtcttgct cttcacctct aagccaatgt tgaccccttc atctataaag tccacaactc 120
 tccggaagtc atcctcacgg aactgtcgag aagttaaggc tggggcccca agccgcaggc 180
 cgcccggtgt gatggcactt cggctctccag gacagggtgtt cttggttgca gtgatggata 240
 caagctctag caccgcgtca gcccgagctc catccaggcc cttggggccgc aggtccacca 300
 gcaccagggtg gttgtcagta ccacctgata ccagttagta gcctcgctct agcagggcat 360
 ctgccatggc ccgagcattc ttcagaacct gcagggagta ctcccgaac atgggggtgc 420
 agg 423

<210> 348

<211> 513

<212> DNA

<213> Homo sapiens

<400> 348

cctctaggcc tgatgctctc agaggcaata gaagaaaagt aaaaggaagg tctcacttca 60
 cagacaatga aaccctccta accctcttcc ccactaccca caactcccta cactgccaat 120
 ctaaataaaa agaggacaat gcatgagtgt gagatacaca tacacacaca cacatacaca 180
 cacacacacg cacagcttcc tttcagccaa agaactgcaa aatccttccc cggaaggagg 240
 acaactggca acaccaatca aggcttggtg gtctaagggtg atggctggaa tcatgtgaga 300
 ctggttaaaaa tccagggaga aaatgtttca ccttcagctc attcccaagt ctctatgaag 360
 cccgccccac ttccacatag gggaactgtg gctctggggg cagcctctgc agctactcag 420
 aataggtggg aggaggggct ggctttgagg ctgccttagc catgaggctc tttgcctagg 480
 aatagctgga gatgggagct gcagggggct cag 513

<210> 349

<211> 231

<212> DNA

<213> Homo sapiens

<400> 349

ccttatttct cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60
 attactcggg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
 atagcggctg caccatcggg atgtcctgat ccaacatoga ggtcgtaaac cctattgttg 180
 atatggactc tagagtagga ttgcgctgtt atccctaggg taacttgttc c 231

<210> 350

<211> 341

<212> DNA

<213> Homo sapiens

<400> 350

ctgcccgaag gcgttcgtaa cgggaatgcc gaagcgtggg aaaaaggag cggtggcgga 60

```

agacggggat gagctcagga cagagccaga ggccaagaag agtaagacgg ccgcaaagaa 120
aaatgacaaa gaggcagcag gagagggccc agccctgtat gaggaccccc cagatcagaa 180
aacctcacc cagtggaacac ctgccacacc caagatctgc tcttggaatg tggatgggct 240
tcgagcctgg attaagaaga aaggattaga ttgggtaaag gaagaagccc cagatatact 300
gtgccttcaa gagaccaa atgttcagagaa caaactacca g 341

```

```

<210> 351
<211> 256
<212> DNA
<213> Homo sapiens

```

```

<400> 351
ggcgttgggg acggtttag gacgtggctc tttattcgtg agttttccat ttacctccgc 60
tgaacctaga gcttcagacg ccctatggcg tccgcctcga cccaaccggc ggccttgagc 120
gctgagcaag caaagggtgt cctcgcggag gtgatccagg cgttctccgc cccggagaat 180
gcagtgcgca tggacgaggc tcgggataac gcctgcaacg acatgggtaa gatgctgcaa 240
ttcgtgctgc ccgtgg 256

```

```

<210> 352
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 21
<223> n = A,T,C or G

```

```

<400> 352
cctttcttgt aagtgaagaa naaggaatgc agcaaagaag agttcgacat tggagtcctt 60
agttccatca ggatcccatt cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120
gctgagatag gtgcaatgac ctacaagatt ttgtgttttc tagctgtcca ggaaaagcca 180
tcttcagtct tgctgacagt caaagagcaa gtgaaaccat ttccagccta aactacataa 240
aagcagccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgccc 300
aaactcattg tgacttttta ttttatatac aggattaaaa tcaacattaa atcatcttat 360
ttacatgg 368

```

```

<210> 353
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<400> 353
ctgaggggtg gcagtaagca atgaggatgg gctataaagc tgttaactgg ctaagggcca 60
tccttgggca ggcatttcag acacatctgt agagagggca gtagcatctc cgataggcca 120
gctctgaagg aagcttaatg cttaatacag tcacactgca taaattagct tagaatgctc 180
tcttgggtaa aaaatattaa tagtgtatat gcacttgaag agcaaaattc ctcaagaaaa 240
aaagtttaat agcaaggagt ttccatcagt cccggtcttt gtgaggatta ccacaacaaa 300
cacttaaaag gataacaacag gtacttatta aatgctgcct tgccttttac ctcttccttt 360
tttttttt 368

```

```

<210> 354
<211> 380
<212> DNA

```

<213> Homo sapiens

<400> 354

```
ccatggcttc tcaccagac agtctttctg ggcaacttgg ggaagcccct gttctgctca 60
agtctcacc catggaagag gtgggggaag ggggccttgg tttttcagga agacagggtg 120
gagagcacga gtcactacaa agcagtaaaa gtgaatggtg tctccagggg ctgggtccag 180
aacaccacgg agagccccag ccataaaggt gtgttcggcc tctggcctgc aggaatctct 240
ttgaatctct ttgattggtg gctccaagag caatgggaag tcaacagcca ggaggctgga 300
ctgggttccc tgggacccc aggtcccaga gctgctgggc agtggttgtc ggcaaagaag 360
aaaggtccaa gagggtcagg                                     380
```

<210> 355

<211> 347

<212> DNA

<213> Homo sapiens

<400> 355

```
ccagtggagg ggtgggggta tcgatccgc cgggggctgg cttggttgct ggtgccctga 60
gcccttctct gccgcctgg gtgttgctt cactgatgga ggtaggcgct cagccagatg 120
tcaccagact tcttcgggga cctgacgatg tccaccagcg cggtgaggaa gggcttcact 180
tcgtagctga ggccgtgctt ggcacacagc gacttgacca ggggggccac ccggctgtag 240
ttgtgtctcg gcatcctggg gaagaggtgg tgctcgatct ggaagttgag gtgcccgctg 300
aaccagttgg tgaaaagtga gggctccacg ttgcaggtgg ctgccag                                     347
```

<210> 356

<211> 157

<212> DNA

<213> Homo sapiens

<400> 356

```
cctggagctg ctgaagactg ctattgggaa agctggctac actgataagg tggatcatcg 60
catggacgta gcggcctccg agttcttcag gtctgggaag tatgacctgg acttcaagtc 120
tcccgatgac cccagcaggt acatctcgcc tgaccag                                     157
```

<210> 357

<211> 323

<212> DNA

<213> Homo sapiens

<400> 357

```
ccatacaggg ctgttgccca ggccctagag gtcactctc gtaccctgat ccagaactgt 60
ggggccagca ccatccgtct acttacctcc ctccgggcca agcacacca ggagaactgt 120
gagacctggg gtgtaaatgg tgagacgggt actttggtgg acatgaagga actgggcata 180
tgggagccat tggctgtgaa gctgcagact tataagacag cagtggagac ggcagttctg 240
ctactgcgaa ttgatgacat cgtttcaggc cacaaaaaga aaggcgatga ccagagccgg 300
caaggcgggg ctctgatgc tgg                                     323
```

<210> 358

<211> 555

<212> DNA

<213> Homo sapiens

<400> 358

```
aaaaggtttc taaaacatga cggaggttga gatgaagctt cttcatggag taaaaaatgt 60
```

```

attttaaaga aaattgagag aaaggactac agagccccga gttaatacca atagaagggc 120
aatgctttta gattaaaatg aaggtgactt aaacagctta aagtttagtt taaaagttgt 180
aggtgattaa aataatttga aggcgatctt ttaaaaagag attaaaccga aggtgattaa 240
aagaccttga aatccatgac gcaggagaga ttgcgtcatt taaagcctag ttaacgcatt 300
tactaaacgc agacgaaaat ggaaagatta attgggagtg gtaggatgaa acaatttgga 360
gaagatagaa gtttgaagtg gaaaactgga agacagaagt acgggaaggc gaagaaaaga 420
atagagaaga tagggaaatt agaagataaa aacatacttt tagaagaaaa aagataaatt 480
taaacctgaa aagtaggaag cagaagaaaa aagacaagct aggaaacaaa aagctaaggg 540
caaatgtac accac 555

```

<210> 359

<211> 549

<212> DNA

<213> Homo sapiens

<400> 359

```

ctgccaggct gaaaagaagc ctcagctccc acaccgcct cctcaccgcc cttcctcggc 60
agtcacttcc actggtggac cagggcccc cagcctctgt tcggccttgt ctgtctcagc 120
tcaaccacag tctgacacca gagccactt ccatactctc tgggtgtgagg cacagcgagg 180
gcagcatctg gaggagctct gcagcctcca cacctaccac gacctccag ggctgggctc 240
aggaaaaacc agccactgct ttacaggaca ggggggttgaa gctgagcccc gcctcacacc 300
caccctcatg cactcaaaga ttggatttta cagctacttg caattcaaaa ttcagaagaa 360
taaaaaatgg gaacatacag aactctaaaa gatagacatc agaaattggt aagttaagct 420
ttttcaaaaa atcagcaatt cccagcgta gtcaagggtg gacactgcac gctctggcat 480
gatgggatgg cgaccgggca agctttcttc ctcgagatgc tcttgctgct tgagagctat 540
tgctttggt 549

```

<210> 360

<211> 289

<212> DNA

<213> Homo sapiens

<400> 360

```

tttaaatttt actagtgtta cttaatgtat attctaaaaa gagaatgcag taactaatgc 60
cctaaatggt tgatctctgt ttgtcattac tttttcaaaa ttattttttt ctgtaaagta 120
taatataata aacttcttgc ttaaattgaa tttctatatt agtgggtaat tgcagtttat 180
taaagggatc attatcagta atttcatagc aactgttcta gtgttttgtg tttttaaaac 240
agaattagga atttgagata tctgattata tttttcatat gaatcacag 289

```

<210> 361

<211> 311

<212> DNA

<213> Homo sapiens

<400> 361

```

ctgttcagta tggcaaaggc cagacttact ccttcaccca ctctgctgcc ttgatgaggt 60
gaacacactg gaataagatg gagggcagga tacctgccaa agcctgagga atgagatgat 120
ctgaaacaat tgggcaaagg ctggacattt caaaaagctg acttccaact gcagtttatg 180
ggtatagaat ttgatgcttc cctcaagtcc tgactgctct ttctgaggca gccaggctag 240
gccaagaaat gagctgctcc agcttctcca gagcacagca gcctcccagg gcctgtcagc 300
atctgcagca g 311

```

<210> 362

<211> 496

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 14
<223> n = A,T,C or G

<400> 362
ccagtttcta aaanaatgca catttaaaga gaagcatcta ccacggcttt aaaacaaaac 60
aactctgaga tgaacaatat gtgttatact cagagattaa caatctcaat catacatact 120
gattctttca gacatttaat aaccactaca tttttttgca ttaatgaagt ttgactatat 180
gtgtaaaggg actaaatatt tttgcaacag cctgttcttt gttcattctt ttctggatag 240
cgtgtcctct gtattgcggt agatttatac attctgttgc ctaaatatgt gtgtaaaatg 300
agctgataaa ctggagtact acttaaaaaa aagtctgtga tttataagat gcatatgctt 360
tctatgtgaa tataagcttg tgcacaatgt ttaaaagaaa aacaatgaat tagaagagat 420
ccccgctccc ccagctctgac atatttcata cagaatgttt aaaagaaaaa ctctgctagt 480
cttggcaaac atttgg 496

<210> 363
<211> 673
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 16
<223> n = A,T,C or G

<400> 363
ccaagagggga gataanacaa acttctcaaa caaaaagaaa agaaaaacga atgattcatc 60
tgctttaatc agtgtgatta atgcagcacc cattgccccg ggaaccgttt ctgctgtact 120
atctggatac taaaatgtta cggaagtagc tctttgttct cctcactct gcccttagtt 180
aatagaaatt cagactcgcc aagtaaggct ttgtgcatag tgtcttcatg tcgcgtatag 240
ttgagcgcgt tcttagcagt tggcttcatg gacagctcat tagtgttttg acttttctta 300
cccagcggtta attgaattct tgcttttaga caacttccct tttgtagtgg tgaaccttgc 360
ccttttagtac agttcaagtg aatctggata attgttcatc tttgcttttag cttagatacc 420
atgtagtggt ctgtggctac aggaagctgg ttctgtctgc ttccacagtc tgcttaaaaa 480
actgtctgac ttcgtgaata tagagaccaa gtttaccact tctgatgaag agaccaatta 540
agattcattc ctcatctgtt ttctttccag tgggagaaga gtcccatga aataagatga 600
aactgattcc atgcactagt acatgtaggc ttctcccttg cgcaaagctt aacaatttgt 660
aggaaacttt ggg 673

<210> 364
<211> 495
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 13
<223> n = A,T,C or G

<400> 364

ccaaatgttt gcncaagact agcagagttt ttcttttaaa cattctgtat gaaatatgtc 60
agactggggg acgggggatc tcttctaatt cattgttttt cttttaaaca ttgtgcacaa 120
gcttatattc acatagaaag catatacatc ttataaatca cagacttttt ttttaagtagt 180
actccagttt atcagctcat tttacacaca tatttaggca acagaatgta taaatctacc 240
gcaatacaga ggacacacta tccagaaaag aatgaacaaa gaacaggctg ttgcaaaaat 300
atthagtccc tttacacata tagtcaaact tcattaatgc aaaaaatgta gtggttatta 360
aatgtctgaa agaatcagta tgtatgattg agattgttaa tctctgagta taacacatat 420
tgttcatctc agagttgttt tgttttaaag ccgtggtaga tgcttctctt taaatgtgca 480
tttttagaa actgg 495

<210> 365

<211> 291

<212> DNA

<213> Homo sapiens

<400> 365

aactgacaag cccttgcgcc tgcctctcca ggatgtctac aaaattgggtg gtattggtac 60
tgttcctgtt ggcccagagt gagactgggtg ttctcaaacc cggtaggtg gtcacctttg 120
ctccagtcaa cgttacaacg gaagtaaaat ctgtcgaaat gcaccatgaa gctttgagtg 180
aagctcttcc tggggacaat gtgggcttca atgtcaagaa tgtgtctgtc aaggatgttc 240
gtcgtggcaa cgttgctggt gacagcaaaa atgacccacc aatggaagca g 291

<210> 366

<211> 277

<212> DNA

<213> Homo sapiens

<400> 366

ctggatgggtg cctcagaagg tgcattctgc ttctgcaggg gcttgaaaca ccaaggcact 60
ccagggatcc tggagtcaaa gcagcagccc cggttgttgc actccttggg ggtgacatgg 120
gggtagcccg cagtccaccc tgccttggc tggcacggca cactggtttg cagacaggcc 180
cacgtactcc tcagcagagc tggaggacaa gcaaggccag gaccagcccc agcatgcaga 240
gogctctggc agccatgacc accgtgggct ccgggac 277

<210> 367

<211> 311

<212> DNA

<213> Homo sapiens

<400> 367

ccagagctgc ggggcctcag tacacggagc tgttccggat gccacagcac agcaccatgc 60
tcaggatcat ctgaagatc atgatcacag cgaccacgat ggcagcaatg ccgatgaggt 120
acagcttccc ggagaagagg tcatcgatct tctggtggca gtccctccttg aagagggtgc 180
tgatgatgtt gctgcccgag ggacacaaat tgttcttgag cactgaggtg gtcaaagcag 240
tcagtgtgct ggagccacag cagtcaagcg tctcgtggaa ggtcttcacc acagccttgg 300
cgttgttggc g 311

<210> 368

<211> 384

<212> DNA

<213> Homo sapiens

<400> 368

ccaaaggggt ctctagctgc tgctctgctg ctctgctca tggatgagtt tggcgatggg 60

```

gccggtgatg ccgcctatca aggtccagta ctcatcgaag ctgatgcgcc catcaggatt 120
ggcatccagg ttctggatga gcttatccgc agccttccgg ttccctgtgt ccgacagcat 180
gtgggttcagc tctttctgga gcatctcgcg gaagctgctc ttgctgatct tgttcttgac 240
caggctgtac ctagacacat atttgtagaa gttttccacc aggacaatga ctgccttctc 300
cagctccgtg tagcaagtct gacatctccc tgcttcgcct gctggcgggg cctaaggcgg 360
gggccaagcc cagttacagc ccag                                     384

```

<210> 369

<211> 216

<212> DNA

<213> Homo sapiens

<400> 369

```

ccaagtgcc ggtggctttc agcagcttcc tacgatcagc cgaagaaagc agaagctctg 60
gaggctgcc tcgagaacct caatgaagcc aagaactatt ttgcaaaggt tgactgcaaa 120
gagcgcacat gggacgtcgt ttacttccag gccagactct accataccct ggggaagacc 180
caggagagga accggtgtgc gatgctcttc cggcag                                     216

```

<210> 370

<211> 561

<212> DNA

<213> Homo sapiens

<400> 370

```

ctggctcctt cttttgtggt cgtttggggg atgggctggt ttgggggttta ggtgcagaga 60
atgggtttggg gccactgcgt actggaccac tctgagcctt cagggcaggg ttcttgtgag 120
tcttcatgtc atcagataca tgtttcaggg catgtgtaat gctctcccc tgattaatct 180
gcgcgaacag tgctgagcgg gaagcagact catctgagcc tgaactggta gagactgggg 240
gaggaggggg gcctgggtgga gggggaggag gacctgatcc ggccagaggg ccagatggca 300
gtccgctcag ttcttttgcc acaggccccg ttttgctcca ggccagtccg gtggtatgga 360
actccttaat gtaagcctgc agctctgtcc atatacttaa ataagctttg acccagtcta 420
catgcttctt atccacatct ttgtactctt tgaggactcg gtttgataaa aacatggcgg 480
catcattcat ttcttttcga taagggccag gcttgggagc catagccacc cagcccaggg 540
cctggatact ttcgctgaca g                                     561

```

<210> 371

<211> 518

<212> DNA

<213> Homo sapiens

<400> 371

```

cccacttcca tcgctctctg gtgtgaggca cagcgagggc agcatctgga ggagctctgc 60
agcctccaca cctaccacga cctcccaggg ctgggctcag gaaaaaccag ccactgcttt 120
acaggacagg gggttgaagc tgagccccgc ctcacacca ccccatgca ctcaaagatt 180
ggattttaca gctacttgca attcaaaatt cagaagaata aaaaatggga acatacagaa 240
ctctaaaaga tagacatcag aaattgttaa gttaagcttt ttcaaaaaat cagcaattcc 300
ccagcgtagt caagggtgga cactgcacgc tctggcatga tgggatggcg accgggcaag 360
ctttcttcct cgagatgctc tgctgcttga gagctattgc tttgttaaga tataaaaagg 420
ggtttctttt tgtctttctg taagggtggc ttccagcttt tgattgaaag tcctagggtg 480
attctatttc tgctgtgatt tatctgctga aagctcag                                     518

```

<210> 372

<211> 335

<212> DNA

<213> Homo sapiens

<400> 372

```
ctggaggctg ggtgcaccct gccagatcc acacctgtac cccggcggaa aggctcatgg 60
gcattgaaga cggtggtgaa aaagccaaag ggaaaagcac caacaccaa tgagaagtgg 120
aagcccccg taccacaaa tggctggaat cccctctctg tctccggagc tggctctctg 180
ccctgggggc ggggtggagt ttttaatctg ggatcctggg gcttctggct cctcgccca 240
taaagcggga caaccttctc tctgctgac ccagctttac atactggaca ctcttgccgt 300
tctggccgtg tctccagcca ctgatgaaga catgg 335
```

<210> 373

<211> 467

<212> DNA

<213> Homo sapiens

<400> 373

```
ccactagctg aatcttgaca tggaagggtt tagctaattgc caagtggaga tgcagaaaat 60
gctaagttga cttaggggct gtgcacagga actaaaaggc aggaaagtac taaatattgc 120
tgagagcatc caccocagga aggactttac cttccaggag ctccaaactg gcaccacccc 180
cagtgtcac atggctgact ttatcctccg tgttccattt ggcacagcaa gtggcagtgt 240
ctccaccacc tatgatgggt atgcagcccc tagaagtggc tttcaccacc tcatccatga 300
gagctttggg tccccgggca aaagcttccc attcaaatac cccacagga ccattccaca 360
caatctgctt agcccagtg acagcctcag catacttctt gctgctttca ggaccacagt 420
ccaagcccat ccagccagca ggtacgccag aagccacagt ggcttgg 467
```

<210> 374

<211> 284

<212> DNA

<213> Homo sapiens

<400> 374

```
tttccgtaaa agcgtgtaac aagggtgtaa atatttataa ttttttatac ctgttgtagag 60
accogagggg cggcgggcgc gttttttatg gtgacacaaa tgtatatattt gctaacagca 120
attccaggct cagtattgtg acccgggagc cacaggggac cccacgcaca ttccgttgcc 180
ttaccgatg gcttgtgacg cggagagaac cgattaaaac cgtttgagaa actcctccct 240
tgtctagccc tgtgttcgct gtggacgctg tagaggcagg ttgg 284
```

<210> 375

<211> 307

<212> DNA

<213> Homo sapiens

<400> 375

```
cctactcttc tccgtccatt gtactatctg cccgtggtgg ggatggcagt aggatcatat 60
ttgatgaact ccgagaagca tattattggc tccgtcataa tactccagag gatgcgaagg 120
tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaatttttag 180
tggaacaata cacatggaat aatacccata tttctcgagt agggcaggca atggcgctcca 240
cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctgggtcattt 300
ttggagg 307
```

<210> 376

<211> 650

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 7, 10, 13
 <223> n = A,T,C or G

<400> 376
 ccattgncn ctnacgtgat gtoatcatct gccaggtcat cttggcaaaa gtcggagcat 60
 ttctcagtca ctgcaaagta gcccttctcg ttggagcacc ggaagagacg tgtgtgtttc 120
 atgtactcgg catcgtcatc atagggtctc ttgtgccccaa tgcccaccca gaagaagttc 180
 tcaggctcct caccttcggt gataacctgc ttgtgttagg aggtgtcaaa catggtgttc 240
 aggatgtctt ctgccaaact ggcttcgtca ggggtctgat cccggccac ccaggcatac 300
 acgatgccct ggttgtctc actctcaaag ggaaccttga ggatgaagca gaactcggag 360
 ttgaggaggc tggagtcggt gttgatctgg atgcaccggg tgcagagggc gctgccgttg 420
 gtgcggtatct ggttagaggct gggctgttgg gcgccttgga ccgccttcct cttgccccgg 480
 tggatgatga acttcctctt gaaatgggac aggaacttgg ggttctcctg ctgctgcgtc 540
 atgcgtacca cctccagctt cccagggaag aggtctcga acttcttttg caggctgaag 600
 gtgaaggatga cccaccata ttgggaggct ttcacggccc tgccagaagt 650

<210> 377
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 38
 <223> n = A,T,C or G

<400> 377
 tctagatgca tgctcgagcg gccgccagtg tgatgganat ctgcagaatt cgccttcga 60
 gcggccgccc gggcaggttc ggggtctgcc ttcacctgcc aggccttc ccgctagctt 120
 ggggcgagca gagctgcgtc cagtggaaact aaagccgttc caggattatc aaaaactgag 180
 cagcaacctt gggggacctg gatcatcacg gactccccca actggaaggt ctttctctgg 240
 cctcaattcc cgtctcaagg ccacgccttc cacctacagt ggagtcttcc gcaccagcg 300
 cgtcga 306

<210> 378
 <211> 199
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 6
 <223> n = A,T,C or G

<400> 378
 ccacangtgg cacttgggtg tggctcctct gttatttgtc ctcatgtgag aaagcagatc 60
 atctccaaat cttgccattt gtatactttt ggtggagact tggatgtcat atcttctttg 120
 ttttgggttt tcttccttag cttattttgt ggcttttaaa gaagtggatt gtattgtgag 180
 atcctgtgat tcttggtg 199

<210> 379

<211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9
 <223> n = A,T,C or G

<400> 379
 ccagggcang tcatcaagag gggcattgtc ttgcatgogg cctgccgtgt ccaccagcac 60
 cacgtcaaag ccttggttac gtgcaaaagc aatggcttcc atggcaatgc cagcagcatc 120
 cttgccatag cccttttcaa acaactgcac catgggtogg ccaccatgct tctctggagg 180
 gtgtagggca ctcaaagcc ggggtgtgtgt acgcag 216

<210> 380
 <211> 555
 <212> DNA
 <213> Homo sapiens

<400> 380
 ccattgggct tcctttccac taaaaggaat tccgaacagc aaaaagaagg tcttgagata 60
 gtgaaaatgg tgatgataac tttagaagggt gaagatgggt tggatgaaat ttattcattc 120
 agtgagagtc tgagaaaact gtgcgtcttc aagaaaattg agaggcattc cattcactgg 180
 ccctgccgac tgaccattgg ctccaatttg tctataagga ttgcagccta taaatcgatt 240
 ctacaggaga gagttaaaaa gacttggaca gttgtggatg caaaaaccct aaaaaaagaa 300
 gatatacaaa aagaaacagt ttattgctta aatgatgatg atgaaactga agttttaaaa 360
 gaggatatta ttcaagggtt ccgctatgga agtgatatag ttcttttctc taaagtggat 420
 gaggaacaaa tgaaatataa atcggagggg aagtgtctct ctgttttggg attttgtaaa 480
 tcttctcagg gtcagagaag attcttcatg ggaaatcaag ttctaaaggc ttgccccaa 540
 gagatgatga ggcag 555

<210> 381
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 381
 ctgcaccagg tgggcctcta ggtcccatta agcccattgg tccagggcca agtccaactc 60
 cttttccatc atactgagca gcaaagttcc caccgagacc aggggggcca ggaggaccag 120
 gtggaccagg agggcctgtg ggaccatctt caccatctct gcctgggggg cctgggtggac 180
 ccctttctcc acgtggtcct ctatctccgg ctggggccctt tcttacagtt tctcttgta 240
 aagattggca tgttgctagg cataagggtta ctgcaagcag caacaaagtc cgcgtatcca 300
 caaagctgag catgtctagc acttagacat gcagactcct tgtgtcgcag agcccctggg 360
 tcaccggcgg aggtatcacc tggcggggcgc gggcatgcag tctgtg 406

<210> 382
 <211> 528
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 18, 20

<223> n = A,T,C or G

<400> 382

```
ctgagcagtt tgtgggtntn ttttcccgca agtttcagga agtattcaca aaagaaaaat 60
acattttttc ccccgagggt ggggcaagga cagtggagag agtgctagga aatgagtccc 120
ctgggaaagg ggaccgggcc gtgatgttaa atatctccgg ctccaagtg actggatttg 180
cctaggacct tcagaccaac agacttcaga cctcagacc tgccccgggg ccagggtggag 240
aaagtgaggg ccgtacaagg aagtgaatt ctgagttggt ggggctaagc ctgacccct 300
ctccatgctc ccgcgccaa cccactctgg cctcagtaga ttttttttc agttgtggtt 360
gttgcccagg ctggagtgc gtagcgccat cttggctcac tgcacctcca cttccgggc 420
tcaagcgatt ctccagcctc agcctcctga gtagctagga ctgcaggtgc tccaccacgc 480
ccggctaatt tttgtatatt tagtagagat ggggtttccc catgttgg 528
```

<210> 383

<211> 335

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5, 321

<223> n = A,T,C or G

<400> 383

```
ccatnttgag tctactcctg cgtcttgtgc cctagcacc cgagaaccgt cagtttgagc 60
cagatggaag ctgagctgaa cacattacga tggatgatgg aaacataaga ctatcaagaa 120
atccaagtgg taatggcgca agtttattca gcatccggca atggacttat cgtagttggg 180
gaaacgggtg ttccgaataa tatcctggaa gttatcagga cacctatattt aaatataggc 240
ctgaattttg taaagtaata ttaaggtgg tccgtgataa ttaaataaaa tgcttaattc 300
atgtggcgaa aaaaaaaaaa naaaaaaaaa aaaaa 335
```

<210> 384

<211> 333

<212> DNA

<213> Homo sapiens

<400> 384

```
agtccaatac ggctattggg gttgtagcag ctttcagagg aaattagtgg tctgggcttg 60
cctccagctc cccaggggca gccccagtag ctacactgtc cagacagcac aagaccaggc 120
tggtgtcacg tccatccgag cgctgcctca gggatcgata aagtttact gcagaaagtc 180
tcactgcgg tatgctgaca tctgcctga acctcacc tacagcatta caggctttaa 240
tcagattctg ctggaaagac acaggctgat ccacgtgacc tcttctgcct tcaactgggct 300
ggggtgatcc ttggtgcctt tgttccaca agg 333
```

<210> 385

<211> 343

<212> DNA

<213> Homo sapiens

<400> 385

```
ctgtgacacc tcaggttgaa agggctcttc tcottgaaca cccaccgagg ggcctggagc 60
aacagccagc cgatatggac ttctagctgc accgggtcac tgagggtgga gaggtttgtc 120
tggcacctgt actctccact gtcgtcgact gtggcagcgt caatgaagta gctcgaggcc 180
tggtttgaga tgaggctctc attgtgaaac cactgtgtgg aattgtctc aggggagtag 240
```

gctccctggc acttcagagt cacactgtcc ttctcgagca cctgtacca ttgaggetcc 300
 aggaacacca cagcctttgg gagatcttca gtcgcgatgc caa 343

<210> 386

<211> 244

<212> DNA

<213> Homo sapiens

<400> 386

tattctttga ttcttggcaa atagggtgaga gaactaatag caaccaggca actgaggacg 60
 aagtcaaaaa gtcggtaaca gaagaatgga atcagocaa ccaacttgata agaaattgct 120
 ccataaacca gcattgaact gattataaac ataagaacag agacggcaaa aagaacacag 180
 gcattatcag ccattctctc agacgaatag taattaccga tgacttcata ctgaatgttg 240
 acag 244

<210> 387

<211> 504

<212> DNA

<213> Homo sapiens

<400> 387

atctggagtc cagcctcagg gatgcgctac tttccattct ctgcattgaa cattcggttct 60
 gtcagcatcc gctccagctt cactgcatca gcggcaaaact tgcggatccc gtcagagagc 120
 ttctccacag ccactctggc ctcgttgtgc aaccaacgga aagacttctc atccaggtgg 180
 attttttcca ggtcactggc ttgggcccgc ttggctgaga gcacaggcac cagcttggcg 240
 ttgtcctgca gcagctctcc caggagcttg ggtgggatgg tgaggaagtc acagccggcc 300
 agtgctttga tctcgcccggt gttgcggaag gaggcgccc tgacaatggt tttgtagcta 360
 aacttcttgt agtagttgta gattttagt acactcttta cccaggggtc ttccaggggc 420
 tcataggatt tcttgctgggt gtttgccaca tgccaatcaa ggatgcgccc aacaaatggg 480
 gagatgaggg tcacaccgc ctcg 504

<210> 388

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 14, 199, 210, 218, 231, 267, 271, 290, 330, 342, 383, 390,
 395, 399, 405, 414

<223> n = A,T,C or G

<400> 388

gccaaagtgc tgcntgaatt ccactccctt ggttttgcgc tgcccagcgt tgctgtttgc 60
 gtggagggtg gggggagctc agtggcaggg aatcagcggc ccgtgggggc gtggggacgg 120
 gaacatgtgc ccgaccgctc catccctcc tcctccttag gatgcataac ctaccttgct 180
 tttttttttt taaattttnt ttccaggtan agtagctntt tgtacataaa naatacttga 240
 aaaattaatt gtatgatgta tgaaaanaca nagtctocta gttttgtatn ttgttgatg 300
 actgccatga gttccaccaa aaagccactn tattttgggc tntgtgacat tttaaatgcg 360
 tgacaaaagt gagcaataa agngaggaan aaatntatnt atganataat atanattgta 420
 ttgaaatcta aaaaaaaaaa aaaaaaaaaa 450

<210> 389

<211> 297

<212> DNA

<213> Homo sapiens

<400> 389

```
cctgcacttg aacatggctt tggttttaag caactttctt accctgaccc tcctcctggg 60
acagcgtttc gggaggtttc ttggcctcac tgagagggat gtggagctgc tgtaccccg 120
caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180
caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240
tctagagaag tttccacct ggaccaatac ggaattccga tacctggagg atggagg 297
```

<210> 390

<211> 223

<212> DNA

<213> Homo sapiens

<400> 390

```
ctgggctgga gagttggtgc tggcaaaaca gtccttcccc tggggccggg tcttaccag 60
gtccagagaa accaacgcgg gatgtcagac ttcacaaaaa ggactttctg gttgccctg 120
gctggcttcc tggaggcgtt cgcctctagt ttctcaggga tggagcgaga gccagccag 180
agaacagtaa gaggagctgc tctcctatct gcactacccc agg 223
```

<210> 391

<211> 365

<212> DNA

<213> Homo sapiens

<400> 391

```
ctgaggaaga aatgaaaaaa gaccctgtcc ctcatggccc gccactggc ctctgtgaa 60
ctctgtcctg ttgccaaacc cagatgaagt cagccaaaaa gtgctttcca catcctctct 120
ctggggctgc ccagcctgac cgtaggggat ccaactggcag agccaagggt gatgctggtg 180
cctgaagctg gaagccagca ggacatgaga cccctcctgt agcaggaagt ggttctagaa 240
ctcccagcag aacagaacgg aaaaggagct gattggggat agaatgagtt ctgctaaaca 300
gccagatgct ctgagagagg tgacactgga ctgtctcgga ggtgtgtgca gatggctaca 360
ggtgg 365
```

<210> 392

<211> 302

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 28

<223> n = A,T,C or G

<400> 392

```
ccaagagcta caatgagcag cgcatacanga cagaacgtgc aggtttttga gttccagttg 60
actgcagagg acatgaaagc catagatggc ctagacagaa atctccacta ttttaacagt 120
gatagttttg ctagccaccc taattatcca tattcagatg aatattaaca tggagagctt 180
tgctgatgt ctaccagaag ccctgtgtgt ggatggtgac gcagaggacg tctctatgcc 240
ggtgactgga catatcacct ctacttaaat ccgtcctgtt tagcgacttc agtcaactac 300
ag 302
```

<210> 393

<211> 213
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13, 19
 <223> n = A,T,C or G

<400> 393
 ccaataatca agnacaaana ctggatttga ggatggatca gttctgaaac agtttctttc 60
 tgaaacagag aaaatgtccc ctgaagacag agcaaaatgc tttggaaaga atgaggccat 120
 acaggcagcc catgatgccg tggcacagga aggccaatgt cgggtagatg acaaggtgaa 180
 tttccatttt attctgttta acaacgtgga tgg 213

<210> 394
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 394
 cctaccata atccagagag gcttgcccag aggaggacta cgtgggggac gtgccaccag 60
 aaccctactt gggggcgga tgctactccg aggtcaaaac ctgctccgag gtggacgagc 120
 cgtagctccc cgaatgggct taagaagagg tgggtgttoga ggtcgtggag gtcctgggag 180
 agggggccta gggcgtggag ctatgggtcg tggcgggaatc ggtggtagag gtcgggggtat 240
 gataggtcgg ggaagagggg gctttggagg ccgaggccga ggccgtggac gagggagagg 300
 tgcccttgct cgccctgtat tgaccaagga gcag 334

<210> 395
 <211> 174
 <212> DNA
 <213> Homo sapiens

<400> 395
 ccagatgagg aaaaaaatta ggaaggagat gaagttttcc aaatttcatg gtatatgctg 60
 cacttcccca accttcactc tccatgtagc ctactgggtc tactattcca caaagtggct 120
 caacctccaa atgacctctg gtttaccctt attaaaatcc caaaggactt tcag 174

<210> 396
 <211> 140
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 20
 <223> n = A,T,C or G

<400> 396
 ctgcaaagcc ttgtgtaacn ttctccagca tttggacca gtacgtgaaa gccacaaca 60
 cgttcattgt ctttagtatt acagattatt tttgcataac atttggtggt atctcttgac 120
 ggaatcgtcc attccaatgg 140

<210> 397

<211> 318
 <212> DNA
 <213> Homo sapiens

<400> 397
 cctcgcctgg agggcccccg ggcagcacag ggaggacgag cttgtccagc agaggggtctg 60
 gcagaggggtc ccgcagaggt ttgggcaggg ggtctgacat ccctggctcc tgctctggct 120
 ctggctgccg ggatttgac aggccaggt gcatacagat gccgtttgag tcagtctgggt 180
 tctggaagta gtcgatgacc agggggaagt agtcgtcaag cacttggttg cactggggca 240
 tgagcagctt caaggggagg acgttgcaact cctgctocag gaacttcctc atcgtgtcct 300
 ggaaaatggc ctcccttg 318

<210> 398
 <211> 517
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5
 <223> n = A,T,C or G

<400> 398
 ccttctctcg ccattccattc atcgaccctc tccagcactt gctgcaggct tggctgacca 60
 tccaccatgg cttgaataat cccggtgagc tctgtacaga atggggtaag ctgtggatgg 120
 actacaggct ggacatacat gtgaaaggtg gactcaatct ccattggctcg gccatttagc 180
 tttaggatgg ggaactcgat gatttcctga ggatgaatct gtggcttctg gcacgtggcc 240
 tcaaagtcca gactaaaaa gtagtgatac ctctggagag ggaaggacac cattgccgcc 300
 atggatgctc caaagccgtg ggccgccagc tttctggtgg atatggagca gaactccgga 360
 acaccacagg gagaaaataa gtgggagccc agcacttttc ttgctcttga aagtaaatac 420
 gaagaaaatc gagctgctcc agtctgtaaa ggtgctagca ttgaacatcc agaagcatct 480
 aaaactctcc ttacttcgaa gatgccaaga ccggcagc 517

<210> 399
 <211> 329
 <212> DNA
 <213> Homo sapiens

<400> 399
 ccaacctcag gcaacgggtg gagcagtttg ccagggcott ccccatgcct ggttttgatg 60
 agcattgaag gcacctggga aatgaggccc acagactcaa agttactctc cttcccccta 120
 cctgggccag tgaaatagaa agcctttcta ttttttggtg cgggagggaa gacctctcac 180
 ttagggcaag agccaggtat agtctccctt ccagaattt gtaactgaga agatcttttc 240
 tttttccttt tttcggtaac aagacttaga aggagggccc aggcacttct tgtttgaacc 300
 cctgtcatga tcacagtgtc agagacgct 329

<210> 400
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 400
 ctggcttcac tgctcagggtg attatcctga accatccagg ccaaataagc gccggctatg 60
 ccctgtatt ggattgccac acggctcaca ttgcatgcaa gtttgctgag ctgaaggaaa 120

```

agattgatcg ccgttctggt aaaaagctgg aagatggccc taaattcttg aagtctggtg 180
atgctgccat tgttgatatg gttcctggca agcccatgtg tgttgagagc ttctcagact 240
atccaccttt ggttcgcttt gctgttcgtg atatgagaca gacagttgcg gtgggtgtca 300
tcaaagcagt ggacaagaag ctgctggagc tggcaaggtc accaagtctg cccagaaagc 360
tcagaagcta aatgaatatt atccctaata cctgccaccc cactcttaat cagtgggtga 420
agaacggctc agaactgttt gtttcaattg g                                     451

```

```

<210> 401
<211> 180
<212> DNA
<213> Homo sapiens

```

```

<400> 401
ccaggaagca ggccagggga ttggcagcac tgcccagcac cacagccagg tggtaggcca 60
gacgcccgtg gggtaagcag gaaaagctct gcacggcagg cagcacgcca ttggtcagcg 120
cgttgggtggc ggccaacagg cccagcaggc aggcactgcg ggctgataga agctgatagg 180

```

```

<210> 402
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<400> 402
ccaggccacc tgtgcggggc tcctcgatgt ggaagggttcg ggtgaggaga ttgtagaagg 60
agccgtagca cacggccacc acagtgcacg tgaggcagat cacgttgtag ggcattgctga 120
agtccggtgt cggcagggtc accagcagcg gctccgtgta gagccgcaca aagtagttag 180
agccatcaga gactgggaac aggcgtgtga agaggggact ctcttcccag tccactggct 240
tggtgtctac catgctgggc acaaggggcg tgaggacaga tgggtgaca tagaagccat 300
ggttaggatc tggcgtgtac tcggtccact tcagcagcgc ccgctcaaac tggatggaaa 360
ccttggtgac tgagttggcc ggcag                                     385

```

```

<210> 403
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13
<223> n = A,T,C or G

```

```

<400> 403
ctgtttaacc agnaaccogg ggggtcaccc cccacagaat gtacatgaaa cactagagga 60
ctgcatgttt ttccctgaga gaagcgtaag acaaacagaa gtcaaaaagt agtcactggg 120
agcgccatcc ttctaagcaa atcctccctt tcccttttgg aggatttgcc cgaactacgt 180
agccagtcag cacttagacc acctgcctcc tccccccct ataaacccac cactccctc 240
ctcctttccc aaaccacttg ggggtgctta agccctcact gcccacagcc caaaatatca 300
gctaagatcc ttgtcagtat ttccacagtc atacctaatg aattgggaag tggggcccct 360
aaaaaccaat tcacatctat gcacttggtt ccactggatt tggcagacag gcttttttag 420
ttaccgtaac cagatcttaa                                     440

```

```

<210> 404
<211> 239

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<212> DNA
<213> Homo sapiens

<400> 404
cctacgaaaa actcccggcc ggtgaagaga acgtcagtgc catccagcgt cgcgttctcg 60
tctcctatatt ccacaattcg gagccccagg tcttgccagg ctttgccggac tccatcgacc 120
tctggcctac gagcggggct ccaggggccgc gtgattaggg ccgtgtcccc ttggatcacg 180
gccgtgtcgc caagcagcgg tcccagcggc aatgactcct cagggtggcag ttctagcag 239

<210> 405
<211> 261
<212> DNA
<213> Homo sapiens

<400> 405
ctggagaggc agcccttcac cggatgcccc gctccgtgcc cctgcggggc ccagcacagt 60
ttacctttctc cccccacggc ggtcccatct actctgtgag ctgttcccc ttccacagga 120
atctcttcct gagcgtctggg actgacgggc atgtccacct gtactccatg ctgcaggccc 180
ctcccttgac ttcgctgcag ctctccctca agtatctgtt tgctgtgcgc tgggtccccag 240
tgcgccctt ggtttttgca g 261

<210> 406
<211> 641
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 13
<223> n = A,T,C or G

<400> 406
ctgctcccgg gcntgggtggc agcaagtaga catcgggcct gtgcagggcc acccccttgg 60
gccgggagat ggtctgcttc agtggcgagg gcagggtctgt gtgggtcacg gtgcacgtga 120
acctctcccc ggaattccag tcatcctcgc agatgctggc ctaccccacg gcgctgaaag 180
tggcattggg gtggctctcg gagatgttg tgtgggtttt cacagcttcg ccattctggc 240
gggtccagga gatggtcacg ctgtcatagg tggtcaggtc tgtgaccagg cagggtcaact 300
tgggtgactt ggtgaggaag atgctggcaa aggatggggg gatggcgaag acccggtatg 360
ctgtgtcttg atcggggaca cacatggagg acgcattctg ctggaaggtc aggccctgt 420
gatccacgcg gcagggtgaac atgctctggc tgagccagtc gctctctttg atggtcagt 480
tgctggtcac cttgtaggtc gtggggccag actctttggc ctacagctgc acctgggtccg 540
tgggtgacgc agacccacc tgcttccct cgcgcagcca ggacacctga atctgccggg 600
gactgaaacc cgtggcctgg cagatgagct tggacttgcg g 641

<210> 407
<211> 173
<212> DNA
<213> Homo sapiens

<400> 407
ccagggtactg gcacaatcat gtctggatgg ggggtggtgg gtctgttagg cagagaaaca 60
ggaaattgtc gtagtcagta tcgagcagc tggcctcggt cgccaccgta tagttgatct 120
tgaacttctt tggattctca gtcttctctc caaggacctt cttctcaaca cag 173

<210> 408
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 408
 ccactgtctg cagccatggc agaaagtgtc caaagtccag caccttcaca ttcattctcat 60
 cactcttggg gttccccagg accttgagca cctcggcggt ggtagggttc tggcccaggg 120
 ccctcatcac atccccacac tggctgtaca ggatcttgcc atcac 165

<210> 409
 <211> 329
 <212> DNA
 <213> Homo sapiens

<400> 409
 ctgtagcttc tgtgggactt ccactgctca ggcgtcaggc tcagatagct gctggccgcg 60
 tacttggtgt tgctttgttt ggagggtgtg gtggtctcca ctccgcctt gacggggctg 120
 ctatctgcct tccaggccac tgtcacggtc cccgggtaga agtcacctat gagacacacc 180
 agtgtggcct tgttggtctg aagctcctca gaggagggcg ggaacagagt gaccgagggg 240
 gcagccttgg gctgaccaag gacggtcagc ttggtccctc cgccaaatac cgccggataa 300
 gcaccactgt tgtctgctga ttgacagaa 329

<210> 410
 <211> 235
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8
 <223> n = A,T,C or G

<400> 410
 ccatcagnga gaaaggtggt tgtcagttgt ttcacaaacc agattgagga ggacaaactg 60
 ctctgccaat ttctggattt ctttattttc agcaaacact ttcttttaaag cttgactgtg 120
 tgggcactca tccaagtgat gaataatcat caagggtttg ttgcttgtct tggatttata 180
 tagagctttt tcatatgtct ggtccagat gagttgggtc ccccaacctc tggag 235

<210> 411
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 411
 aattaaggga agatgaagat gataaaacag ttttggatct tgctgtgggt ttgtttgaaa 60
 cagcaacgct tcggtcaggg tatcttttac cagacactaa agcatatgga gatagaatag 120
 aaagaatgct tcgcctcagt ttgaacattg accctgatgc aaaggtggaa gaagagcctg 180
 aagaagaacc tgaagagaca gcagaagaca caacagaaga cacagagcaa gacgaagatg 240
 aagaaatgga tgtgggaaca gatgaagaag aagaaacagc aaaggaatct acag 294

<210> 412
 <211> 433
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 135, 138, 153, 162, 187, 206, 208, 212, 214, 219, 224, 237, 254, 271, 295, 303, 330, 336, 348, 358, 364, 367, 375, 394, 433

<223> n = A,T,C or G

<400> 412

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cctgagaagc cagaggcagg tggagagggg gtggaaagtg agcagcgggc tgggctggag 60
ccgcacacgc tctcctccca tgtaaataag cacctttaga aaaattcaca agtccccatc 120
cacaaaaaaa aaaanaanaa aaatttcagg gantaaaaat anactttgaa caaaaaggaa 180
catttgntgg cctggggggg catctnantt tntntagcnc cagngattcc ctcccnccc 240
cacccatcac atanatgtaa cacctttggt ntaaaatggg gagccgtttc caccntgccc 300
ccntccccgc cccagggcag ttgccccgn gacacntcaa gacaggancg aggtagtntt 360
tcancancac agttncacaa ggaacagaac agtntctccc gccagccct gcggcacaag 420
ggattgacac gcn 433
```

<210> 413

<211> 494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 17

<223> n = A,T,C or G

<400> 413

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ccttatttct cttgtcnctt cgtacagggg ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggctgtaaac cctattggtg 180
atatggactc tagaatagga ttgcgctgtt atccctaggg taacttgttc cgttggtcaa 240
gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg 300
ctcggagggt gggttctgct ccgaggctgc cccaaccgaa atttttaatg caggtttggt 360
agtttaggac ctgtgggttt gttaggtagt gtttgcatca ataaattaaa gctccatagg 420
gtcttctcgt cttgctgtgt tatgcccggc tcttcacggg cagggtcaatt tcaactggta 480
aaagtaagag acag 494
```

<210> 414

<211> 294

<212> DNA

<213> Homo sapiens

<400> 414

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ctgggaggat agcaccgggc atattttgga atggatgagg tctggcacc ctagcagtc 60
agcgaggact tggctcttagt tgagcaattt ggctaggagg atagtatgca gcacggttct 120
gagtctgtgg gatagctgcc atgaagtaac ctgaaggagg tgctggctgg taggggttga 180
ttacagggtt gggaacagct cgtacacctg ccattctctg catatactgg ttagtgagg 240
gagcctggcg ctcttctttg cgctgagcta aagctacata caatggcctt gtgg 294
```

<210> 415

<211> 421

<212> DNA
<213> Homo sapiens

<400> 415
ccttgcccct gccctcccac gaatgggttaa tatatatgta gatatatatt ttagcagtga 60
cattcccaga gagcccaga gctctcaagc tcccttctgt caggggtggg ggttcagcct 120
gtcctgtcac ctctgagggt cctgctggca tccctctccc catgcttact aatacattcc 180
cttcccata gccatcaaaa ctggaccaac tggcctcttc ctttcccctg ggacaaaaat 240
ttaggggcct cagtccctca ccgccatgcc ctggcctatt ctgtctctcc ttcttcccc 300
tggcctgttc tgtctctgag ctctgtgtcc tccgttcatt ccatggctgg gagtcaactga 360
tgctgcctct gccttctgat gctggactgg ccttgcttct acaagtatgc ttctcccaca 420
g 421

<210> 416
<211> 342
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 17
<223> n = A,T,C or G

<400> 416
ccactttctt tcccachctg gaaggcggca tctatgactt cattggggag ttcataaagg 60
ccagcgtgga tgtggcagac ctgataaggc taaaccttgt catgtcccg aatgccggca 120
agggagagta caagatcatg gttgtgtccc tgggctgggc cactgctgag cttattatgt 180
cccgtgcac tcccctatgg gtccggagccc ggggcattga gtttgactgg aagtacatcc 240
agatgagcat agactccaac atcagtctgg tccattacat cgtcgcgtct gctcaggtct 300
ggatgataac acgctatgat ctgtaccaca ccttccggcc gg 342

<210> 417
<211> 389
<212> DNA
<213> Homo sapiens

<400> 417
tattaattag gttcttaaga catttagaac accaatttgt gaggataaat tccattcgtc 60
agagcaaaca cagatcgag gtagccctgg agctgaggaa tagctttgat ttttggtaaa 120
atttgtgagt ccacagcttt ctgatcaatc ttgogctgct ccgtaatctc atatttctct 180
ttttctgtgt cgaagatctc accttcctgg tgtctgggct tcgcagctt cttcttcttg 240
aagtaagcat cagtaagatg ttttgggatt tttacattgc tgatatgat tttggttgaa 300
gtggcaatga caaatttctg gtgtgttctt cgtagaggaa ctcgattgag gaccagaggt 360
ccagtcacaa gtaataagcc actagccag 389

<210> 418
<211> 343
<212> DNA
<213> Homo sapiens

<400> 418
gtgggaggga gccaggttgg gatggaggga gtttacagga agcagacagg gccaacgtcg 60
aagccgaatt cctgggtctgg ggcaccaacg tccaaggggg ccacatcgat gatgggcagg 120
cgggaggtct tgggtggttt gtattcaatc actgtcttgc cccaggctcc ggtgtgactc 180

gtgcagccat cgacagtgac gctgtaggtg aagcggtgtg tgccctcggc gcggatctcg 240
 atctcgttgg agccctggag gagcagggcc ttcttgaggt tgccagtctg ctggtccatg 300
 taggccacgc tgtttttgca gtggttaggtg atgttctggg agg 343

<210> 419

<211> 255

<212> DNA

<213> Homo sapiens

<400> 419

cctagcaaga gaatcaccaa atttatggag agttaacagc ggtttaacag gaaggaagtg 60
 ccttttagtaa gttctcaagc cagaggttgg aggcagcagc taaatcagag gacagcatcc 120
 tcagtgaag tgagccattc ggggtggcat gtcactccag gaataaacac aacttagaaa 180
 caaatgattt cgtaggatag cacagtgaca tgggtgactg tgaacctgag gccactgtgt 240
 caaactgtgc actgg 255

<210> 420

<211> 261

<212> DNA

<213> Homo sapiens

<400> 420

cttctgatga taaccaaccc ctagctacca ctctgtattc atcaggggag gggataaaac 60
 cccacatgca agaagaaccc ttgccccag tgtcaaatgg gatggggatg ctagagttat 120
 agtaaagggg aaaccctatg taagctgtta acagagttca caggggtagg gataaccct 180
 gttctccagc tcccaaatgt gtcactttc ccagcttctt catccgttca tcaatgctgg 240
 caaagttccc ctcaactgtg g 261

<210> 421

<211> 179

<212> DNA

<213> Homo sapiens

<400> 421

ccttcctggt gttgtttcaa atgctgcttg atttctcgta acagatctgc atctatgtaa 60
 tacctttctt cagatctgac tgctccaaaa tgattctgca tcttgatttg agacatcaat 120
 tcatttagtc ggcccttgaa ctgagtaggt gcatttagtt caccctgaat cgtatccag 179

<210> 422

<211> 424

<212> DNA

<213> Homo sapiens

<400> 422

cgagggtccaa atctgatctg cagatgcaga agattcgaca gaagctgcag actaaacagg 60
 ctgccatgga gaggtctgga aaagctaagc aactgcgagc acttaggaaa tacgggaaga 120
 aggtgcaaac ggaggttctt cagaagaggc agcaggagaa agcccatatg atgaatgcta 180
 ttaagaaata tcagaaaggc ttctctgata aactggattt ccttgagggg gatcagaaac 240
 ctctggcaca gcacaagaag gcaggagcca aaggccagca gatgaggaag gggcccagtg 300
 ctaaacgacg gtataaaaac cagaagtttg gttttggtgg aaagaagaaa ggctcaaagt 360
 ggaacactcg ggagagctat gatgatgtat ctagcttccg ggccaagaca gctcatggca 420
 gagg 424

<210> 423

<211> 256
 <212> DNA
 <213> Homo sapiens

<400> 423
 ctgtggccta gggctacctc aagactcacc tcataccttac cgcacattta aggcgccatt 60
 gcttttggga gactggaaaa gggaagggtga ctgaaggctg tcaggattct tcaaggagaa 120
 tgaatactgg gaatcaagac aagactatac cttatccata ggcgaggtg cacaggggga 180
 ggccataaag atcaaacaatg catgggatggg tcctcacgca gacacacca cagaaggaca 240
 ctagcctgtg cacgcg 256

<210> 424
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 424
 ccagccgcat gggagtggag gcagtcacg ccttgctaga ggccaccccg gacaccccag 60
 cttgcgtcgt gtcactgaac gggaaccacg ccgtgcgcct gccgctgatg gagtgcgtgc 120
 agatgactca ggatgtgcag aaggcgatgg acgagaggag atttcaagat gcggttcgac 180
 tccgagggag gagctttgcg ggcaacctga acacctaca gcgacttgcc atcaagctgc 240
 cggatgatca gatcccaaag accaattgca acgtagctgt catcaacgtg ggggcacccc 300
 cggctgggat gaacgcggcc gtacgctcag 330

<210> 425
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 12, 124, 133, 145, 152, 244, 249, 254, 263, 307
 <223> n = A,T,C or G

<400> 425
 ctgctccatg gntctaaagt cagcaccacc cacacccaca atgatcaactg acatgggcag 60
 gttcgaggca cgcaccacag cctcacgtgt ggcttccaca tccgtcacag caccatcagt 120
 cagnagaaac agnatgaagt attgngaggc antcccctga tgtgcagcct gggctgcaaa 180
 cctggacctg cccgggcggc cgctcgaaag ggcgaaattcc agcacactgg cggccggttac 240
 tagnggatnc aganctcggg acnaagcttg gcagtaatca tggtcatagc tgtttcctgt 300
 gagcggntgg gatgaacgcg gccgtacgct cat 333

<210> 426
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 346
 <223> n = A,T,C or G

<400> 426
 ggggtgttcat catgaggatt gcttctgcca tggagctgat ggacgtgggc aggttgctga 60

```

gaaggtgggg  tggaagtgag  tgccgggggt  ggggtgagtgc  cctgggtcttg  ttcatagggg  120
agcctttccc  tagcagtgga  acgctgtggt  cattttctct  agcatattcc  cttgggaagt  180
ctagatttgc  tattaatctg  gctgagaatc  taagttctgt  gccttagaga  cagtttgcac  240
tttcccatat  tgtgcctggg  acagccatat  gatttttttt  cccaccaaac  aagtatgcaa  300
acagaaacca  gttcaaaggg  ggatgggtga  aaagatgagg  cagtanaaat  gcctttgaat  360
ggttttctgt  agctaattct  ctttaaattt  tgtcctgctt  tttttcttta  t              411

```

```

<210> 427
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 136
<223> n = A,T,C or G

```

```

<400> 427
acgtgtacaa  gtttgaactg  gataaccttg  aaagaaagat  tgaatttgac  tctgcctctg  60
gcacctacac  tctctactta  atcattggag  atgccacttt  gaagaaccca  atcctctgga  120
atgtggctga  tgtggnctac  aagttccctg  aggaagaagc  tccctcgact  gtcttgctcc  180
agaacctttt  cactccaaaa  caggaaattc  agcacctgtt  ccgcgagcct  gagaagaggc  240
ccccaccgt  ggtgtccaat  acattcactg  ccctgatcct  ctgcgcgttg  cttctgctct  300
tcgctctgtg  gatccggatt  ggtgccaatg  tctccaactt  cacttttgct  cctagcacga  360
ttatatattc  cctgggacat  gctgctatgc  tgggactcat  gtatgtctac  tggactcagc  420
tcaacatggt  ccagaccttg  aagtacctgg              450

```

```

<210> 428
<211> 377
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 133, 181, 246, 264, 280, 290, 300, 325, 360, 362, 374
<223> n = A,T,C or G

```

```

<400> 428
cagggtctata  gtgcgctatg  ttgatctggt  gttcatgcta  agttccgcat  caatatgggtg  60
acttcttggg  agtgggggac  caccagggtg  cctaaggagg  ggtgaacctg  cctacgttgg  120
aaatagagct  ggncaaaact  cctgtgctca  tcagtagtag  aattgcacct  gtgaatagcc  180
nccgccctcc  agcatgggca  acataacaag  accctgcctc  ttaaagataa  aaattggaaa  240
acactngtag  gaaaaaaaag  gtgnttggtc  taaataaatn  tggattgggn  ataaatgacn  300
caaaactatc  atgaatttga  aagcntttct  aatttcttga  aagtctgaaa  aaagttaaan  360
cncaatttta  tctnaaa              377

```

```

<210> 429
<211> 206
<212> DNA
<213> Homo sapiens

```

```

<400> 429
gttgctcctc  caaagaaggt  tggcttcaag  gccgtgtcca  gggacccacg  agcagaggca  60
ctggggggca  agggatctcc  aagggggcaa  gggatcccta  aagggggtag  ctcacagggt  120

```

aggggggttta gggccctct agggagcgcc tgaggccata cattcaagag tgccctggt 180
gaggccagg gaagagccag gactgg 206

<210> 430
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 329, 335, 363, 365, 448
<223> n = A,T,C or G

<400> 430
ccttatttnt cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatoga ggtcgtaaac cctattgttg 180
atatggactc tagaatagga ttgcgctggt atccctaggg taacttggtc cgttggtcaa 240
gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg 300
ctcggagggt gggttctgct ccgaggtcnc cccanccgaa atttttaatg caggtttggt 360
agntnaggac ctgtgggttt gttaggtact ggggtgcatta ataaattaaa gctccatagg 420
gtcttctcgt cttgctgtgt tatgcccnc ttttcacggg cagggtcaatt tca 473

<210> 431
<211> 215
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 15
<223> n = A,T,C or G

<400> 431
cctgtatnaa gctanaaaaa gactaccagc ccgggatcac cttcatcgtg gtgcagaaga 60
ggcaccacac ccggctcttc tgcactgaca agaacgagcg gggtgggaaa agtggaaaca 120
ttccagcagg cagcactgtg gacacgaaaa tcacccaccc caccgagttc gacttctacc 180
tgtgtagtca cgctggcatc caggggacaa gcagg 215

<210> 432
<211> 391
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 377
<223> n = A,T,C or G

<400> 432
ccagcactgc cacaaacttt ttcagggccca ccaggcgctg cccttccagg accgggaacc 60
tgcccacttc tatccgcagg atgtagtgca gtgcagattc caggtcagcc atgtagatcc 120
tgagcgcgac tgccaatttc caaacagtgg gagctatctt gttagcagtg gttggtgcaa 180
ctgtggtctg ggcagcctcc ctggtgagcc cagagagttc ctgcaggtaa gcggtataga 240


```

aggacctgga ttccatgagc acgggggactc gggagacgga gccattccgg aacagcaggt 300
agcaagaggg gaagtcggtg acaccaaact ttctcaccac attggcctct gtgttcagca 360
ccctgcgcac cgccacncct ttgtgctggg a 391

```

```

<210> 433
<211> 420
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 275, 295, 328, 374, 399, 413, 420
<223> n = A,T,C or G

```

```

<400> 433
ctgtagcttc tgtgggactt ccactgctca ggcgtcaggc tcagatagct gctggctgcg 60
tacttggtgt tgctttgttt ggagggtgtg gtggtctcca ctcccgcctt gacggggctg 120
ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180
agtgtggcct tgttggttg aagctcctca gaggagggcg ggaacagagt gaccgagggg 240
gcagccttgg gctgacgtag gacggttagt ttggnccctc cgccgaatgc cgcanttcta 300
ctgtcccaca cctgacagta atagtcancc tcatcttcgg cttgggctct gctgatggtc 360
agggtggccc gtgntccccg agttggagcc agggaatcnc tcagggatcc canagggccn 420

```

```

<210> 434
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 199, 236
<223> n = A,T,C or G

```

```

<400> 434
ccaaccanga gagaagggat cgcttggtgc ccagggccca ccaggagctc caggcccact 60
tgggattgct gggatcactg gagcacgggg tcttgacagga ccaccaggca tgccaggctc 120
taggggaagc cctggccctc aggggtgtcaa gggtgaaagt gggaaaccag gagctaacgg 180
tctcagtgga gaacgtggnc cccttgacc ccagggtctt cctggtctgg ctggtncag 239

```

```

<210> 435
<211> 415
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 78, 225, 228, 276, 328, 330, 339, 352, 378, 387, 405, 415
<223> n = A,T,C or G

```

```

<400> 435
ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cgcaagagcc 60
tatgtatgtg gaatccanaa ctcagtgagt gcaaaccgca gtgaccagct caccctggat 120
gtcctctatg ggccggacac ccccatcatt tcccccccag actcgtotta cctttcggga 180

```

```

gcaaacctca acctctcctg ccaactcggcc tctaaacctat cccncanta ttcttggcgt 240
atcaatggga taccgcagca acacacacaa gtctctnttta tcgccaaaat cagccaaat 300
aataacggga cctatgcctg tttagggntn taacttggnt actggcgcga anaattccat 360
agtcaagagc atcacagnct ctgcatntgg aacttctcct ggctntcaga cctgn 415

```

```

<210> 436
<211> 152
<212> DNA
<213> Homo sapiens

```

```

<400> 436
ccaggattga caggccatcc attcacagcc aggagatgct gggccagtcc ctccaagagg 60
tctccgtcat ggcagtgatg aaaacctaac aggggtggccc cctgtgccag ctcagggtgac 120
tggagcccga gggcctgaca ggttcccagc ag 152

```

```

<210> 437
<211> 174
<212> DNA
<213> Homo sapiens

```

```

<400> 437
ccagggtactg gcacatcatg ctctggatgg ggggtggtggt gtctctgtaag cagagaaaca 60
ggaaattgtc gtagtcagta tcgagcagct gtggccctcgt tcgccaccgt atagttgatc 120
ttgaacttct ttggattctc agtcttctct ccaaggacct tcttctcaac acag 174

```

```

<210> 438
<211> 485
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 324, 371, 393, 412, 419
<223> n = A,T,C or G

```

```

<400> 438
ccacggccct ctcgccctc tcgctgggag cggagcagcg aacagaatcc atcattcacc 60
gggctctcta ctatgacttg atcagcagcc cagacatcca tggtaacctat aaggagctcc 120
ttgacacggg caccgcccc cagaagaacc tcaagagtgc ctcccggatc gtctttgaga 180
agaagctgcg cataaaatcc agctttgtgg cacctctgga aaagtcatat gggaccaggc 240
ccagagtcct gacgggcaac cctcgcttgg acctgcaaga gatcaacaac tgggtgcagg 300
cgcagatgaa agggaagctc gccnggtcca caaaggaaat tccgatgag atcagcattc 360
tccttctcgg ngtggcgcac ttcaaggggc agngggtaac aaagtttgac tncagaaang 420
acttccctcg aggatttcta cttggatgaa gagaggaccg tgagggtccc catgatgtcg 480
gaccc 485

```

```

<210> 439
<211> 317
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 146, 268

```

<223> n = A,T,C or G

<400> 439

```

gggccgtctt cccctccatc gtggggcgcc ccaggcacca gggcagtgat ggtgggcatg 60
ggtcagaagg attcctatgt gggcgacgag gccagagca agagaggcat cctcaccctg 120
aagtaccca tcgagcacgg catcgncacc aactgggacg acatggagaa aatctggcac 180
cacaccttct acaatgagct gcgtgtggct cccgaggagc acccgtgct gctgaccgag 240
gccccctga accccaaggc caaccgcnag aagatgacct agatcatgtt tgagaccttc 300
agcaccacag ccatgta                                     317

```

<210> 440

<211> 338

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4

<223> n = A,T,C or G

<400> 440

```

ccanaaagac ttcccaggga agatgcttgg ctctctgctc caaggtgggc catggtatag 60
ggccctcgaa gggcttgtgg ctggggtgat cccagggggc attgctcaa gtgcacagga 120
ggtggcagca ggtcaggcg agttcctgtt ccaggacat caggaggag ggtagaagcc 180
tagggagtgt gcgaggctgc tgggatgagg gagctcaggg gctaccagct aaccagcctc 240
agctcaatgg tttctccatc cttgggtctg tagtcagcaa taccttgcaa cagtggggtg 300
ttggggtctc ggagaagctg ccagaactcc ctttctcc                                     338

```

<210> 441

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10, 186, 246, 321, 330, 403, 404, 406, 416, 445, 459, 481, 484

<223> n = A,T,C or G

<400> 441

```

ccacacagan tcaccaagcc acagacttgt ctccacaag cactttctta tcttagccac 60
gaagtgacca agccacacgt actaaagggt gaactcaaag atatgtacag ggtattaaac 120
aaataccaag gggaacagtt aacttcaata caaggctgaa atcagcaaca agttctacaa 180
tcagngctg atatcagata caagcttcaa ggacaatttc ttttcgaagg cttattccag 240
tttcgngagg ctagcatgag gtgtgtgcat ttgccagggg caaatttcta ttctcaatta 300
acctatgcag caaatgctac ncatggtgcn gagtccgttt agaagcattt gcggtggacg 360
atggaggggc ccgactcgtc ttactcctgc ttgctaatec acnngngctg gaaggnggac 420
agtgaggcca cggatggagc caccnatcca caccgagtn ttcgctctg ggggtgcgat 480
natnttgatc ttcatggtgc tgggc                                     505

```

<210> 442

<211> 386

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 331, 369
 <223> n = A,T,C or G

<400> 442
 cgccaggtga tacctccgcc ggtgaccag gggctctgag acacaaggag tctgcatgtc 60
 taagtgctag acatgctcag ctttgtggat acgcggactt tgttgctgct tgcagtaacc 120
 ttatgcctag caacatgcca atctttacaa gaggaaaccg taagaaaggg cccagccgga 180
 gatagaggac cagctggaga aaggggtcca ccaggccccc caggcagaga tggatgaagat 240
 ggtcccacag gccctcctgg tccacctggt cctcctggcc cccctggtct cgatgggaac 300
 tttgtctgtc agtatgatgg aaaaggagg nggacttggc cctggaccaa tgggcttaac 360
 gggacctana ggcccacctg gtgcag 386

<210> 443
 <211> 404
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 241, 306, 311, 328, 339, 362, 372, 385
 <223> n = A,T,C or G

<400> 443
 cctccctctc agagcttgcc ccagggactc tctggccctc agggttcaat gtattctgac 60
 caaggccaag ctttcctggg gctcaggga aatcacactt tgctaccga agctgtatcc 120
 cctcagatgc caggaaggcc gtgatcatct gactccacc tctgagaca cattctctcc 180
 ctgactgtcc tgttctaagt cagcggagca ccttaggatg gaggggtgga ggcgaggcca 240
 ngatgcagcc tctgtgaaca ggtgcctgga ggctgggaaa tgaccctgag agggcaggac 300
 acagcnaccg ngggcttaag gtgaggngg agagcaagnt tggcccaact tacaattcta 360
 gntcagagcc ancccctaac atggnnggca tttattcatt tcgg 404

<210> 444
 <211> 318
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 58, 69, 87, 195, 250, 275, 286, 302, 305, 317
 <223> n = A,T,C or G

<400> 444
 catgggctat agtgcgctat gttgatctgg tgttcatgct aagttccgca tcaatatngc 60
 gacttcttng gagtggggga ccaccangtt gcctaaggag gggatgaacct gcctacgttg 120
 gaaatagagc tggatcaaac tctgtgtctc atcagtagta gaattgcacc tgtgaatagc 180
 caccgcctc cagcntgggc aacatagcaa gacctgcct ctttaagataa aaattggaaa 240
 aacttggtan gaaaaaaagg ctgtttggtc taaanaagtc tggatngggg ataaatgaca 300
 cnaantatc atgactnt 318

<210> 445
 <211> 418

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 288, 354, 375, 387, 389, 400
<223> n = A,T,C or G

<400> 445
ccagtcacaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagccag 60
cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct gcaggcgcat 120
agggtgcaaaa tcccaggaca ggcatgaagt gaccatcatt cagcttcaca cactgatatt 180
tcgaatccat ttctgtcact agcctggctg gcaaagtgtt ctttcttctt ccctcacagg 240
ctataagagc aatgagctgg caacgcccct gagcacactg tctgctgntt aaccaatggc 300
atgtgagagg agggacagag gcagctctac acaagctgtg ataaaaattg catncagttc 360
aaccagtttc ttacnttatt ctaatgngna ggaagtgtgn gaagagcaca aagtcaga 418

<210> 446
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 78, 89, 148, 193, 201, 253, 259, 265, 288, 290, 292,
298, 318, 342, 343, 346, 354
<223> n = A,T,C or G

<400> 446
ctgtccaatn acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc 60
tatgagtgtg gaatccanaa cgaattaant gttgaccaca ggcacccagt catcctgaat 120
gtcctctatg gccagacga cccaccntt tccccctcat acacctatta ccgtccaggg 180
gtgaacctca gcntctcctg ncatgcagcc tctaaccacac ctgcacagta tccttggtg 240
attgatggga acntccagna acacnacaca agagctcttt atctccanctn tnactganaa 300
gaacagcgcg actctatncc ttccaggggg ggggggtggg gnntgnggac cttncggggc 360
c 361

<210> 447
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 7, 9, 105, 121, 192, 202, 213, 299, 301, 305
<223> n = A,T,C or G

<400> 447
ccagganant ggttcccaaa aggggacctc acccgccccg agctctggag ccgctgacgc 60
tcgcatccag gacatttgag atgggaatcc aaataggcta cttgnaaaag acgtgctgca 120
ngcagccctg gagagactca tggagttcat tgtacattac tccatctacc gaggcagcgc 180
atggcatgac tnaacggctt gnaacaaaca canaaattac caccacaaac attcaggaac 240
caaatataat ctgctatggt cacaccacag acaatgcagg aagaggtttt ttattgctng 300
ngtnggtttt caaatcatgt t 321

<210> 448
 <211> 325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 107, 222, 251, 296, 301, 325
 <223> n = A,T,C or G

<400> 448
 ccagcttcaa ctttttagta tagaagatac aggatcacaa aaaggagact acgctttgca 60
 aacatagcat caaaattcaa cttttctctt tgcagtttat ccatggngtc agcatacctt 120
 gcaaggggaag ctacttacat caaataactt ttctatatac atttctcat tgaccttttc 180
 tcaaagaata tcttggtttt gccgaacaaa cataatatag gngtctgcc gatccattcc 240
 tggtttctgt ngtgaaggaa aagcaggggg aacaaaataa tatcagggtc tcaatngtga 300
 nattattatt taatcatacc ctgan 325

<210> 449
 <211> 123
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8, 69, 70
 <223> n = A,T,C or G

<400> 449
 cattaatntt ggaagcgatg gtgtggatta catcagtgtt agggcatggt gtggatatta 60
 ttacattann attggaagcg atggtgtgga ttacatcagt gatagggcac ggtgtggata 120
 tta 123

<210> 450
 <211> 328
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 241, 257, 323, 325, 328
 <223> n = A,T,C or G

<400> 450
 ctggcaatth tgagctgccg gttatacacc aaaatgttct gttcagtacc tagctctgct 60
 cttttatatt gcttttaaatt tttaaagaaa ttatatgca tggatgtggt tatttgtgca 120
 tattttttta caatgcccaa tctgtatgaa taatgtaaac ttcgattttt ttttaaaaaa 180
 attagattht agctggagct tttgactaat gtaaagtaaa tgccaaacta ccgacttgat 240
 ngggatgtht ttgtaangtt aattttctaa gactttttca catccaaagt gatgctttgc 300
 tttgggttht aactgtttca acntnggn 328

<210> 451
 <211> 209

<212> DNA
<213> Homo sapiens

<400> 451
ctgccttgtt tcaacagaca tgcaaagatc ctaggagaca gtcccatag accttcagac 60
attaaaaagg gagccgtaca gtttgtttga agcacttcgt cttacccatt tatgcagggg 120
cccaggaata cttacacaca gccagaatga ggttcccaaa ggacttacat taattatggc 180
tcttgcttcc tttcacaaat gagctgagg 209

<210> 452
<211> 457
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 290, 392, 416
<223> n = A,T,C or G

<400> 452
ctgtctantc ccttcaagag ctgtttatag aagcttgaga atggggtaaa aatttctgct 60
agcaaaatca agttcttttt gaaattttat cagtaatcca gaatttagta gtccatgcct 120
tctcactcag catttagaaa taaaaatgtg gtttcttaaa cgtatattct ttcattgata 180
tttccacatt tttgtgcttg gatataagat gtatttcttg tagtgaagtt gttttgtaat 240
ctactttgta tacattctaa ttatattatt tttctatgta ttttaaatgn atatggctgt 300
ttaatctttg aagcattttg ggcttaagat tgccagcacc acacatcaga tgcagtcatt 360
gttgcattca gtgtggaatc tgatagagtc tngactccgg ccacttggag ttgtgnactc 420
caaagctaag gacagtgatg aggaagatgg catgtgg 457

<210> 453
<211> 277
<212> DNA
<213> Homo sapiens

<400> 453
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcttgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaagca gataaggaaa atgactacga gggcgtgacg atgaaagggtg 240
ataagctctt ctatgatagg ggaagtagcg tcttgta 277

<210> 454
<211> 198
<212> DNA
<213> Homo sapiens

<400> 454
gttaaaagat agtaggggga tgatgctaata aatcaggctg tgggtgggtg tgttgattca 60
aattatgtgt tttttggaga gtcattgtcag ttgtagtaat ataattgttg ggacgattag 120
tttttagcatt ggagtagggt taggttatgt acgtagtcta ggccatatgt gttggagatt 180
gagactagta gggctagg 198

<210> 455
<211> 608

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 43, 225, 502, 508, 569
<223> n = A,T,C or G

<400> 455
ctgagcaagc taaggaccag gggcaactag accctaataa tngtacttt tgaaaatgat 60
acaaactacc ttggttgtaa gaagtgcagg ttgaacactt taggagaaca gtcttcaaac 120
tggcaattca aaatttccca ttatatgtga ataaaattgg aaggatgtta aatgtccatg 180
gaaagttact cttgtaagtt aggatgcctt atactgaggc tttanaatga aagtacactt 240
cacaaatgga atagtgaaca taaattacca gaagtcaaga taatagtcac actagtaagg 300
taagcaaggt aaattccctt atacacaaaa attattttga tgaccttttt caataatgaa 360
tctgaaatga agtgttttaa aaagctccct aaacacaaaa cgaacataaa actgcttaat 420
aacttttagag ctcatgtaat attcttgctg aaaacagtta ctgaaattac cagcgaaatg 480
atggaatatc tttaaagcag gncactcngt ataactctgga ataatttcat ttgctaactt 540
ttaagaagta ttctctggac tataaatcnt gggcaaatag acttccactt tattattacc 600
ccaaatta 608

<210> 456
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 358
<223> n = A,T,C or G

<400> 456
cctggacctg tgtaaacctt caaacactct tttttacatt aggtcgtgaa gttaaatttt 60
ttactgtttc tgtgctacag actcttcaaa gggaaatagt taagtcaatt tcaaagaaaa 120
tgaccagcac attttttaaaa cattagaaat gatttgactt tgactatcta ctgccaaaaa 180
aagggttaagg aatttgtaat gagaagctaa aaactttaag gaattttaag gaactcaaaa 240
caaaaactca ttaaagttaa ttaaagttaa ttctacaaat aaagcctctt aatacatttc 300
tataatagtc acttaagact taaattcaaa cactagcaaa ccacaaaatc agactgtntg 360
actgacatcc aaaagataaa tataaatcaa aatccgaccc cagcattagc caaggggtag 420
gtgttcctct tgaggaaggc aggaattcct cttctgccac ctgtttgg 467

<210> 457
<211> 183
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10
<223> n = A,T,C or G

<400> 457
ccaaattttt tacttttaaac actgaaaaca gaggaagtta ataaaaattt taacctataa 60
agtccctctg ttgttagtca ttaacagcag attgtcagat aagactggta aatgatggc 120

tgctaagcat ttgatgatcc aggcgcagga tgatcaaact gcagcagatc atgcacgtga 180
cag 183

<210> 458
<211> 445
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 324, 372, 388, 396, 431
<223> n = A,T,C or G

<400> 458
gaaaaatata aagccaaaaa ttggataaaa tagcactgaa aaaatgagga aattattggt 60
aaccaatttta ttttaaaagc ccatcaattt aatttctggt ggtgcagaag ttagaaggta 120
aagcttgaga agatgagggt gtttacgtag accagaacca atttagaaga atacttgaag 180
ctagaagggg aagttgggta aaaatcacat caaaaagcta ctaaaaggac tgggtgaatt 240
taaaaaaaac taaggcagaa ggtttttgga agagttagaa gaatttggaa ggccttaaatt 300
atagtagctt agtttgaaaa atnggaagga ctttcgtaac ggaagtaatt caagatcaag 360
agtaattacc ancttaatgt ttttggcntt ggactntgag ttaagattat tttttaaatc 420
ctgaggacta ncattaatgg gacag 445

<210> 459
<211> 426
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 345, 363, 400, 401
<223> n = A,T,C or G

<400> 459
cctatgatan cttctctagc tatcatactc caatcagcaa aaaatgagaa aatgttgaga 60
aatagaagat aattcctcat ttaaggccac cttctagaat ttgtgcttaa gattctgctt 120
tcttctcatg ggccagcact tcggcaactg gcaaaaatta ggtgtacagg gatctaggta 180
atactgttta tttgagcaat aatatattgt gctaacgttc aggcataccta ttactgagaa 240
ataagggaaa atgagtgtaa agtacaacta agagtctcgg cgacagggaa aaataccatc 300
agttaaatat ccatatgcct agagcattta tgtaaaaactg caatntgaat cctgcaatac 360
atnttggctt tttccctcag tgataccatg tgagggaagn ngctctgtca aggcggggccg 420
gataga 426

<210> 460
<211> 348
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 147, 184, 203, 288, 294, 308, 312, 313, 316, 333, 345, 347
<223> n = A,T,C or G

<400> 460

```

ccaaatttta aaatgttatt ttcatatca ttataaact tgcacaatc cacttaaaga 60
agtttggtta tatttcactg aaaattttct tccagagtag gtttttttcc gtgggttggg 120
gggtaacttt actacaatta gtaagtntgg tgcagaattt catgcaaag aggagtgcag 180
cagngtgata atttaaacat atntaaacaa aaacaaaaaa aatgaatgca caaacttgct 240
gctgcttaga tcactgcagc ttctaggacc cggttttctt tactgatnta aaancaaaac 300
aaaaaaanta annacnttgt gcctgaaatg aanccttggt tttntna 348

```

```

<210> 461
<211> 378
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 370
<223> n = A,T,C or G

```

```

<400> 461
ccactaagac agaacggaat ctagtagaag tgcaccaatg cttcagtcct tctactcag 60
catggtgagc agtgggtcaat ctgtgccctg tggaatgatg ggcagataat tctggcatgt 120
gtaaataata ataaataatt cacttggtgc aggcagtatg tctatgaatt aaaacctagt 180
gtgtacacag tgcctacatg tgttacagcc ccacagtagg aatctacacc aaaatattta 240
ttagaaggaa tttggtccgt actacatcac gctttccgga gggtaaaaaa taaagtccat 300
ctatagacat ttcaccacag acccagagac tgagtctggc taaaacctgc aaaatgtcta 360
taacaaaagn ggatggct 378

```

```

<210> 462
<211> 197
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 59, 72, 81, 99, 105, 112, 120, 137, 140, 155, 158, 163, 182,
190
<223> n = A,T,C or G

```

```

<400> 462
gcgaggtcca cactattaaa agctgttggg taattgaagg tgatataaaa tgactgtcnt 60
catttggagt gngcagcaca nttacttcat gttgctcang ttanaacaa tntcccctgn 120
aagttctcac acagatnggn agaaatcata cctantntng gtnaatcact atggcagccg 180
tngaagaatn taagaga 197

```

```

<210> 463
<211> 279
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13, 18, 26, 28, 43, 164, 175, 200, 201, 203, 219, 222, 230,
246, 262, 263, 267
<223> n = A,T,C or G

```

<400> 463
cataagtgat gangaggnaa aatcantnaa taagcctaca acntagaata cattaaaact 60
tgcacatata catgttcaca gcatgtatac aatgataatc cctacgggtt aaccaagtta 120
tggttccctt ctacagcaga cacaaaacca aggtgaacta ggtnggcaga tgtanaggga 180
ataccaaaaa aagggtaatn ngntcactga ttctgaagna tntgactgan catactgagc 240
ttctgnactt tgggaatgca tnnaggnaac aatatcttg 279

<210> 464
<211> 552
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 266, 287, 395, 444, 460, 481, 487, 493, 512, 520, 532, 549
<223> n = A,T,C or G

<400> 464
gatgggttga taggtgcagc aaaccaccct ggcgcatggt taccaatgta acaaacctgc 60
acatcctgca caggtactcc aaaactaaaa gtaaaaaaat ctaaaagaaa aaagaaaaag 120
aattaaaccc aaatcactt ccccatctgg acttgattta gatgaaaagc ttctggactt 180
tgagctgatg ctatagtggg ttgaaaattt tggggtcctc agaaggggat gaggatata 240
tgcagagag agcaacatga atcatngaga gccagagtat agagagnggt gggtagactg 300
taggagagcc ctcaatgatc cgggctgtct tgtattcgcg ttgcacttac ttgtataata 360
tggcagatgg gatgtgatgt cactttcaag attangttat aaatagacta tggcttcaat 420
cagagggttt tcttctctgt ctanctctct tttgggtagn ttcatctctga gagaaagcca 480
nacctcngcc gcnaccacag ctaaggggag anttccagcn cactggcgcc cngttactag 540
tggatccgng ct 552

<210> 465
<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 124, 326, 360, 369, 388, 394, 399, 413, 415, 438, 443
<223> n = A,T,C or G

<400> 465
ccactcttgg tagaaacctt gaaactttca ccttgctggg ctttagcaaa gtttcctttt 60
acagttctgt ttatgagctt cagctactga taaagcactt cctgaacttc tctattatca 120
tagngacoot ctgaataacc tgagtgactg gctcggcaat tcgctttata accattctta 180
ttcccaaagt tggagcacat aaacatttag atgtcttttc ctgtaaaata ttctagacat 240
ttacccaaac tctagttcaa catatactca acttgcaactg tatactctcc tgcttttttg 300
agacagagaa gaaattcagg aggtgnccca tctccagagt ttctctgttg gaaagcagcn 360
atcaagaanc ctttaaaaaa ttggtgtnaa gctntgcccnc ctgcagaaat gcntngcccc 420
acattattct tctggggnaa agna 444

<210> 466
<211> 381
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 265, 325, 326, 338
 <223> n = A,T,C or G

<400> 466
 cctactatgg gtgttaattt tttactctct ctacaagggt ttttcctagt gtccaaagag 60
 ctgttcctct ttggactaac agttaaat tacaagggat ttagagggt ctgtgggcaa 120
 atttaaagtt gaactaagat tctatcttgg acaaccagct atcaccaggc tcggtagggt 180
 tgtcgctct acctataaat cttcccacta ttttgctaca tagacgggtg tgctctttta 240
 gctgttctta ggtagctcgt ctggnttcgg gggctcttagc tttggctctc cttgcaaagt 300
 tatttctagt taattcatta tgcannaggt ataggggnta gtccttgcta tattatgctt 360
 gggtataatt tttcatcttt c 381

<210> 467
 <211> 95
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 7, 11, 15, 46, 69, 74, 77
 <223> n = A,T,C or G

<400> 467
 cctatanatt ntggnttgta tactgggtcc tgaaaaccct cttggngctc tgtttttaag 60
 gagctgaanc caanganccg caataataat acttt 95

<210> 468
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 468
 cagtgggtct ctgatgcctt gcctgcagca gaaggaggga gcagagatca agaggaagga 60
 aaaaatcata tgtacttatt tgaaggtaaa gattattcta aagagcccag taaggaagac 120
 agaaaatcat ttgaacaact ggtaaacctt cagaaaaccc ttttgagaa agctagtcaa 180
 gagggccgat cactccgaaa taaaggcagt gttctcatcc cagg 224

<210> 469
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 469
 ctgagttcta gttcaaaagc tttatcctta acttcgtcat gtactatgta aattctagaa 60
 tagaaaaggg aaaggtaaga ttttggtaac ctccaaacat tgaagtagtt cacagacca 120
 aagtcagtac aaattagaat gtccatccat aataaaagta tctataaaat tacacagaca 180
 cattctacat agtatttaac attagagaag acaaattaca cagggactga aataaaatga 240
 aacatctact ctcccacaaa atgttgaata tacctaataca acccaagtgc agtttatttt 300
 tgcacattgc tttagagata taacttggct gggcacagtg gtcacacct gtaatcccaa 360
 cactttggga gaccaaggcg gatggatcac ttgaggtcag ttcgagacta gcctgg 416

<210> 470

<211> 376
 <212> DNA
 <213> Homo sapiens

<400> 470
 cacctttttaa ctgtatcaca aagtctgttg ctgtggttac agcctttgtt tccagtgatg 60
 ttttgtccat gctttccccc aacccttaac aatggttact caaaagaatg aaataatgag 120
 tcattcattc gggaatatgt taaaatatcc ctctttatca ttacatttca ctgcttagaa 180
 actaggctgt aattcaaggc aacagttaag tctgagaact gttaaaaaaa tctttgattt 240
 tttttcattt ttaagaaaaa cctgcctatt taattgttca gacttgtaag aggttcttca 300
 attacatcct ttttggttaa tgtattatct ctggaacaag tagataaaat tctacgcagt 360
 aagcataata aaaatc 376

<210> 471
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 471
 ggcttcgtat aatggttctt ttgtcacccc tgatcgacga tttcgtctacc cgtacaactc 60
 tgacaaggga acgaaatgct tctgtgtatt cacctagtgg tctgtgtaac agaagaacaa 120
 caactccacc ggatagtggg gtactgtttg aagggttagg catttcaaca agacctagag 180
 atgttgaaat tcctcagttt atgagacaga ttgcagtaag gaggccaact acggcagatg 240
 aaagatcttt gcggaataat caagaacaag atattattaa ttttagacga actctttacc 300
 gtgctggtgc tcgagttaga aatattgaag atggtggcgc ctacagggat atttcag 357

<210> 472
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 29, 213, 428, 515
 <223> n = A,T,C or G

<400> 472
 cngagatgac atttacaatc tcttgaaang cagcagatgg cactctggtg cttcctatga 60
 agcaacatgc ttgaaatcaa gggccaacaa ttgttgtagg aaagcaaaat atacctctaa 120
 cacctacgtt taccaaaaaa gctgacatct caaactctga gttgttgaga ctcaaatttc 180
 tcatccccaa agaagcctat tacggtagtg tgntggatgc tttttgtatc tctgataggc 240
 aggcactata atgggggggaa atacttctga ataaaaacat tggctgtctt gcaactgtgc 300
 atataatgtc tattcaaggg gccagtgtgc ctagcatgat cctgaaatgt tgagataaaa 360
 ggaagttagc attaaagcac tttttgtctt atatgaaaag agtgactcta tcttccagta 420
 aacaagantt cctgcaatga aaaagaaatt ttttcottca ttatctataa actatacaaa 480
 ataaccttcc tttttaacct aagactcaaa cattnatatt tgattttatt ctatttgata 540
 ccaattggtg tgtccag 557

<210> 473
 <211> 264
 <212> DNA
 <213> Homo sapiens

<400> 473

```
cctccatcaa cagaaaggat aaagacccct tcgggtctcc tcattaattc tgaactggaa 60
aagccccaga aagtccggaa agacaaggaa ggaacacctc cacttacaaa agaagataag 120
acagttgtca gacaaagccc tcgaaggatt aagccagtta ggattattcc ttcttcaaaa 180
aggacagatg caaccattgc taagcaactc ttacagaggg caaaaaaggg ggctcaaaa 240
aaaattgaaa aagaagcagc tcag 264
```

```
<210> 474
<211> 165
<212> DNA
<213> Homo sapiens
```

```
<400> 474
aattcagctt ccagaggccc ttattagtcc ttgttgacag aaacatagat ttggcaactc 60
ctttacatca tacttggaca tatcaagcat tgggtgcacga tgtactggat ttccatttaa 120
acagggttaa tttggaagaa tcttcaggag tggaaaactc tccag 165
```

```
<210> 475
<211> 417
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 370, 372
<223> n = A,T,C or G
```

```
<400> 475
aagttctctt cttgttttaa acacattcct gataacttct aaagatgacc aaaataaaaac 60
agaatatcta cagagatcat tttctgaatt ttttgtacat ccaaggataa caacataaaa 120
aaaataaaaac tggacagcat tccacatcca agtgcacaga accatttttg caagattaaa 180
taatgtaaac attgggaaca gccaaatcag cgaagaatgc caacacctca aaacacctgg 240
tgttgccgct tcattaagtg gttcaaaatc cagatctata attgcgcaat attcaccgta 300
tataaaaaga aatggatatt aattttgaca aatagctgca actgagactt ctttttattt 360
ctttatatgn gnatatagtg aatttttatt attttttaaa ttttatttat tttttta 417
```

```
<210> 476
<211> 321
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 36, 87, 102, 158, 170, 193, 196, 263, 291
<223> n = A,T,C or G
```

```
<400> 476
catttaataa caaaaacaac ctgtacggaa aaccnaagg caaccacata gcatatgtaa 60
aatgtgcaaa tacactttta aatgcangtt attctatagc anttgcaaga tagaatttca 120
ctgtaattag ggaatctagc tcacctaacc ttaatagnct tttgcatgtn tagacaatgc 180
aattctacaa ggnacnactc agcgttgatg ctaaagtatg aaacacatcc tcagattatt 240
catccgaaaa tattaataa gcntcatggt ttattattct ttaatgagtc ntgagctcat 300
ttctaaagct tcataaagca t 321
```

```
<210> 477
```

<211> 546
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 546
 <223> n = A,T,C or G

<400> 477
 gctgtggtta tattgtaaat gaagcatcta acatgtgcac aacttgcaac aaaaactcct 60
 tggactttta atctgtcttt ctacagtttc atgtgtgat tgatctgact gatcacacag 120
 gcacccttca ttctgttagt ctacaggaa gtgttgctga ggagactttg ggctgcacgg 180
 tacatgagtt tcttgcaatg acaaatgaac agaaaacagc attaaagtgg caattcctct 240
 tggaaagaag caaaatttat ttaaaattcg ttctatcaca cagagcaagg agtggattga 300
 aaattagtgt actctcgtgc aagcttgcag atcctactga ggcaagcaga aacttgctctg 360
 gacaaagaca tgtttaaaac ggtctatcat tttgaactct ggaaaagtat aagagtttta 420
 actcccttta aaatggaata ttaatttgaa aattatgggg aaaattgcat tttgtttaca 480
 tgtggtgaac atgtttctag aaattggtat ggcggaagg gggctgggtg agtctgaagg 540
 acctcn 546

<210> 478
 <211> 100
 <212> DNA
 <213> Homo sapiens

<400> 478
 aagaaaagtg gtaaaatcaa gtcttcttac aagagggagt gtataaacct tggttgtgat 60
 gttgactttg attttgctgg acctgcaatc catggttcag 100

<210> 479
 <211> 508
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 3, 423, 505
 <223> n = A,T,C or G

<400> 479
 gnnttccaaa ttcttctaac ttttccaaaa gccttctgcc ttagtTTTTT tttaaattaca 60
 ccagtccctt tagtagcttt ttgatgtgat ttttaaccaa cttcccttcc tagcttcaag 120
 tattcttcta aattggctct ggtctacgta aacaccctca tcttctcaag ctttaccttc 180
 taacttctgc accaccagaa attaaattga tgggctttta aaataaattg gttaccaata 240
 atttctctat tttttcagtg ctattttatc caatttttgg ctttatattt ttctatcttc 300
 tatacttctc caatacttgt cttagcttgt ttttcatttt ctatctgaaa ctcttgacaa 360
 tatcttctaa tttccctatc ttctctatcc ttttcttcgc cttcccgtaac ttctgcttcc 420
 agntttccac ttcaaacttc tatcttctcc aaattgttca tctaccact cccaataatc 480
 tttccatttt cgtgtagcac ctggncag 508

<210> 480
 <211> 81
 <212> DNA

```
<400> 480
ggtgcccttt tctaactt cacaacaaa ctaactaata ctaacatctc agacgctcag 60
gaaatagata aggaaaatga c                                     81
```

```
<220>
<221> misc_feature
<222> 30
<223> n = A,T,C or G
```

```
<210> 482
<211> 582
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 92, 155, 262, 369, 393, 413, 430, 451, 452, 460, 463, 467,
471, 474, 486, 516, 554, 558, 562, 565, 569
<223> n = A,T,C or G
```

```
<210> 483
<211> 275
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
```


<222> 251

<223> n = A,T,C or G

<400> 483

```
gcctcactaa aataacagat ttcagtatat ccaagttcat cagaaagacc caaatggaat 60
gatttacaaa atagaacact ttaaaccagg tcagtoctat ctttttgtag ctgaaggcta 120
tcagtcataa cacaatttcg cgtacacctc tgctcattat ggaattacac ttaaaacgaa 180
tctcaagagg gtgaccattg ttgtttcaga taccatccct aaggagagtg gttaacagga 240
agattgccag ngttactgat ggaaagaagc gcttg 275
```

<210> 484

<211> 434

<212> DNA

<213> Homo sapiens

<400> 484

```
catatttcca caggccaatt tctttctggt tttctgctaa gctatttcag catttttagct 60
tttctctctt gctttgttta ctcatgattg ccagatggct acgttacctc taagcatcag 120
atcctcacia attaatggtt aaatgtaagg gagggatttt actctcttgc attaaaaaaa 180
agctttattg agatataatt tactgtaaca ttgactcatt taaagtatgc tagtcaatag 240
accaaattctt gaataaactc ccattcacaa ttgtacaaa gggaataaaa tagctgggaa 300
tatagctaac aagggaagtg aagggcctct tcaaggagaa ctacaaacca ctgctcaaga 360
aataagagag gatacaaaca aatggaaaaa cattccatgc tcatgaatag gaagaatcaa 420
tatcgtgaaa atgg 434
```

<210> 485

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1

<223> n = A,T,C or G

<400> 485

```
ncaccactgc agccctacat acagttgaaa aaaaattcca ttctgttaac atttgtttta 60
taagttttca cgcaatacac aaaaaacccc tctgcacttc ttgtaaagaa caaaaaagat 120
acacaacagt taagcgtaaa gatcacaggc aatagcattc aaacatggat gtgggtagag 180
aaaggagtac ctggcatgag tacctgctta gtttgactga atccttgatt ttttaatttg 240
cttttcattg gccgctcaca acaccaacgc tgtgtgaggt atggtagtca g 291
```

<210> 486

<211> 274

<212> DNA

<213> Homo sapiens

<400> 486

```
ctgtaaatatt gtagttgctc cagaatgtca agggcagctt acggagatgt cactggagca 60
gcacgctcag agacagtga ctagcatttg aatacacaag tccaagtcta ctgtgttgct 120
aggggtgcag aaccogtttc tttgtatgag agaggatcaa gggttggttt cctgggagaa 180
attagttttg cattaaagta ggagtagtgc atgttttctt ctgttatccc cctgattgtt 240
ctgtaactag ttgctctcat ttttaatttc ctgg 274
```

<210> 487
 <211> 184
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 86, 132, 137
 <223> n = A,T,C or G

<400> 487
 tggcaccaag attctcagct cacggtacca gcatctgatt gtctggactac ctgctgcttt 60
 ccctgatatt tatacatgat attcgnaaaa tgtaaagaag ctattattca tacagacatc 120
 tagagaagga gngaagnntt taaaaaaata aaaaaatact tatttcaagc ttttagctgtg 180
 ttct 184

<210> 488
 <211> 393
 <212> DNA
 <213> Homo sapiens

<400> 488
 ctgcattttt attgcgatct gcagatgaac tggaaaatct catttttaca cagaactggg 60
 acagacgacc accatattca ctgaggtcta aatttgcagt ttccactaat gacattttga 120
 tttcccaaca gagatacttc tggctctact gcacagtctt ttaagagaaa tacttccatt 180
 atgccacatt gtccttgatc cgtaagtgat gtgttaagggt gcttcaaagg aactctgacc 240
 tctgaagtac ttgagctact ttagtatgtc cagcctattg ctttttgttt tagtgtgtca 300
 ccataaatat caggggcata aaaggctatc tattcttaat tcaaggataa aacagaagaa 360
 gcttgtggta taaaacaata gttcaagatc cag 393

<210> 489
 <211> 607
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 46, 270, 440, 515, 558, 579, 580, 602
 <223> n = A,T,C or G

<400> 489
 gtgcttatgt acttaagggg aactactcta actgggtgaa gagtangatg aagcatccat 60
 gtccctacaa aggatatgaa ctcatccttt tttatggctg catagtattc catgggtgat 120
 atatgccaca ttttcttaat ccagtcctatc atcgatggat atttgggttg gttccaagtc 180
 tttgctattg tgaatagtgt cgcaatgaac atacatgtgc atgtgtcttt atagcagcat 240
 gattttataat cttttgggta tatacccagn aatgggatag ctgggtcaaa tgggtatttct 300
 agttctagat ctttgtggaa ttgccacact gtcttccaca atggttgaac tagtttacag 360
 tcccaccaac agtgtaaaag tggctctatt tctccacatc atctccagca cctgttggtt 420
 cctgactttt taatgattgn cattccaact ggtgtgagat ggtatatcac cgtgggtttg 480
 atttgcattt ccctgatggc cagtgatgat gaacnttttt tcatgtgggtt tttggctgca 540
 taaatggcct gccttttnta cttctataaa atttttcann tcttattatt attcctgggg 600
 gnttaag 607

<210> 490

<211> 179
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 76, 102, 131, 169
 <223> n = A,T,C or G

<400> 490
 cttctaggaa tactagtata tcgctcacac ctcatactct ccctactatg cctagaagga 60
 ataatactat cactgntcat tatagctact ccataaacc tnaacacca ctccctctta 120
 gccaatattg ngcctattgc catactagtc tttgccgcct gcgaagcanc ggtaggacc 179

<210> 491
 <211> 399
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 41, 156, 371
 <223> n = A,T,C or G

<400> 491
 cctctacctg taatcacatt aatttttcta aagacagggg nggtgttttg aagataaatg 60
 tcattagtct atgataatag catcatagga caattagcca ttttagactt gaccatattt 120
 tctcttttta gcatatagcc atcttgatat ttagngggga gactactcca atggagcaac 180
 agtttcattt tacatgattg gatttagaaa tttacaaatt ttaaaactcat aagaattcta 240
 aataatttga aaatggaaac atttgacca cagtctagca gcataaatac atttataaaa 300
 tacttcattg ttgatcttag gtcattgatt taaaacagaa tttggtgact atgggcaggt 360
 ggagggggcc ngtgaggaag gtataaaaga gaaatcttt 399

<210> 492
 <211> 482
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 39
 <223> n = A,T,C or G

<400> 492
 ctccacctta ctaccagaca gccttagcca aaccatttnc ccaaataaag tataggcgat 60
 agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac 120
 caagcataat atagcaagga ctaaccctta taccttctgc ataatagaatt aactagaaat 180
 aactttgcaa ggggagccaa agctaagacc cccgaaacca gacgagctac ctaagaacag 240
 ctaaaagagc acaccctct atgtagcaaa atagtgggaa gatttatagg tagaggcgac 300
 aaacctaccg agcctggtga tagctgggtg tccaagatag aatcttagtt caactttaaa 360
 tttgccca caaacctcta aatccccttg taaatttaac tgttagtcca aagaggaaca 420
 gctctttgga cactaggaaa aaaccttgta gagagagtaa aaaatttaac acccatagta 480
 gg 482

<210> 493
 <211> 207
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35, 37
 <223> n = A,T,C or G

<400> 493
 cataaatatt atactagcat ttaccatctc acttngngga atgctagtat atcgctcaca 60
 cctcatatcc tccctactat gcctagaagg aataatacta tcaactgttca ttatagctac 120
 tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180
 ctttgccgcc tgcgaagcag cggtagg 207

<210> 494
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 38
 <223> n = A,T,C or G

<400> 494
 ccaattgatt tgatggtaag ggagggatcg ttgacctngt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
 atttcttgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggt 240
 ataagctctt ctatgatagg ggaagtagcg tctttagtagc cta 283

<210> 495
 <211> 590
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 584
 <223> n = A,T,C or G

<400> 495
 tatgtatata attttcttag ttactagcat agagaaatta ctgatttaaa aaaacatttc 60
 aaattctagc atgttgtagg attctattgc cttttctaaa aagtacatct tgottatccg 120
 atttctaaca aaactattta atttgaagaa gggagaatga atttggataa aaagcaaaaa 180
 tttaaaggta ctcaaattta ggcaaaccat taaagcaatc ttagtttaca gtttaattggg 240
 tagaatgggc aacactttct tcaggttagt tcatggagtg gatatgcatt gatagaacaa 300
 cttagagatg cttttacagt tgagaaagct cattatattt gttatcttta agaatcagct 360
 tatttatttc atatgtttgt tctttaagaa gaccaaagag ccctgcaaat gaatgttgat 420
 ttgttttttt gtttggttaa tatttttgta gagataagat ctcaactttgt tatgttgccc 480
 aggctgggtct caaactctca acttgaagtg atctgccac ctcagcctcc caaagtgggtg 540
 ggattacagc catgagccac cgcacctgga cctgcccggg cggncgctcg 590

<210> 496
 <211> 307
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 20, 22, 25, 34, 118, 119, 155, 167, 169, 178, 188, 201, 212,
 230, 245, 259, 260, 268, 300, 307
 <223> n = A,T,C or G

<400> 496
 ggagattagt atagagaggn anacnttttt tcgngatatt tggtcacatg gataagtggc 60
 gctggcttgc catgattgtg aggggtagga gccaggtagt tagtattagg aggggggnng 120
 ttagggggtc tgaggagaag gttggggaac agctnaatag gttgttngnt gatttggnta 180
 aaaaacanta gggggatgat nctaataatt antgctgtgg gtggttgtgn tgattcaaata 240
 tatgngcttt ttcggagann catgtcangt ggtagtaaata ataattgttg ggaccattan 300
 ttcttan 307

<210> 497
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 34, 35, 37, 124, 150, 176, 179, 183, 185, 188, 200, 203, 213
 <223> n = A,T,C or G

<400> 497
 cattttcttc ttggtttctt cagttaagtc aaannngnac gttcctcttt ccccatatat 60
 tcatatatatt ttgctcgtaa gtgtatttct tgagctgttt tcatgttggt tatttcctgt 120
 ctgngaaatg gtgttttttt ttgttgttgn tgggtttttt tttttttttt aaactnggna 180
 concnaantt gaaaaaatgn ttntttttcc ctnaca 216

<210> 498
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 36, 37, 155, 227, 239, 242, 253, 279, 283, 286, 325, 330,
 337, 340, 349, 356
 <223> n = A,T,C or G

<400> 498
 gaattttctg gcaccttttc tcgctagaga agattnnngtg tgactggggt gcctataagc 60
 catatagata caaactttta tctctaatac caagtcttag agggatatat taatagatct 120
 aataaattta ttcttagact tattgtttca tgggntagtg agtctttgct actggagaca 180
 atacagactt gtcagttttt ttaaaaaaaaa aaattttgcc aagctancao attaaaaana 240
 tntcctaagg ctntcatttt atgaggatga ttataaaacnt ttntgngata aatatcacca 300
 taataaaactg ttaagtacaa ctgcnggccc cccttanagn gaattcctnc agttanaaat 360

<213> Homo sapiens

<220>

<221> misc_feature

<222> 38

<223> n = A,T,C or G

<400> 502

```
cctatgattg tgggggcaat gaatgaagcg aacagagntt cgttcatttt ggttctcaga 60
gtttgttata attttttatt tttatgggct ttggtgaggg aggtaagtgg tagtttgtgt 120
ttaatatatt tagttgggtg atgaggaata gtgtaaggag tatggggg 168
```

<210> 503

<211> 173

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 34, 35, 43

<223> n = A,T,C or G

<400> 503

```
cctttataat aaattaggca aaaggttcag tgcnnnggcta tantggacaa catgaaactc 60
cataaaaaatg actggatagg gggactgctt gagacttttc ttttgggcat tactaacaga 120
attcaaagaa attccaacca cgcttatattt tccaaattct actgaaatga gag 173
```

<210> 504

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 127, 259, 273

<223> n = A,T,C or G

<400> 504

```
tagtatttcta tttaaaaaatt aagttttggg gtctgtaaaa tatacaggac aatgactttt 60
ttaaaatgta agttaataacc tcctcctcac ttgtcttaat tgaacttagg tgtttattct 120
taaaggngga ccttgatgaa aatggtgaga tgggaagtgt tattaggcaa aacttgttat 180
agatttctca tataactctt aattgaccct tagaatttta acaaccgcgc ctggccaat 240
agactgtttt ttagagtant tttaggctct cancaaaatt gaggggaaaa tacagggtgt 300
tccatttaaa 310
```

<210> 505

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 527

<223> n = A,T,C or G

```

<400> 505
cctcagggaa cttacaatta tggcaaaaagg ggaaggggaa gcaagcacct tcttcacaag 60
gcatcaggag agagagagaa agagagtagg ggaaactacc ccttttaaac catcatatcc 120
tgtgagaact ccctcagtat tagaagagca tgagggaaac cgcctccata atccaatcac 180
ctcccaccag gaccatccct caatacatgg gggttacaat tcaagatgag gttcgggtgg 240
ggatacagat ttaaaccata tcagaatggg taatgatatt gttgtatttt accaactata 300
atcttcttag tggtatagta caataatgta aaaaattgag taaatttggt ttctatatta 360
ttctgttttt ggaaaacatg tatatagtca gggctgtttg tctcaagaaa atatggtaaa 420
ctctgctgtt ttggctactg gtgcctagaa tttggggatg tacattgggt ttgattcaca 480
tgcacatttc cttctagttc acagtaacta tttctaacta tttccnata 530

```

<210> 506

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 50, 175, 336, 337

<223> n = A,T,C or G

<400> 506

```

cttgaacgct ttcttaattg gtggctgctt ttaggcggtc ctatgggtgn taaatttttt 60
actctctcta caagggtttt tcctagtgtc caaagagctg ttctcttttg gactaacagt 120
taaattttaca aggggattta gagggttctg tgggcaaatt taaagttgaa ctaanattct 180
atcttggaca accagctatc accaggctcg gttaggtttgt cgcctctacc tataaatctt 240
cccactattt tgctacatag acgggtgtgc tcttttagct gttcttaggt agctcgtctg 300
gtttcggggg tcttagcttt ggctctcctt gcaaanntat ttctagttaa tt 352

```

<210> 507

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 35, 186

<223> n = A,T,C or G

<400> 507

```

cctaactaga tcttatcaga atagggggga agggngtcgg ttcatectta ttgagtgtta 60
atgaccctgt aagatgtaat ttcttttatt tcattctgtt acctagaaaa tctatcacag 120
cettgtagta ttgattgctc aatctataaa gagctcagtt tacagcatga ctgttagtaa 180
cagggnattt ttaatgagtg actcttcaac acctcagagt ttactaaat tccaacccat 240
cagcccagta gtctaacatt aagggtctta ggaaatgaga acttatcacc tttccttatt 300
atgaaaaggt aacctccagg taaccaaaaa tagaacttcc tctgtgttcg ttttttatag 360
aaattactgg 370

```

<210> 508

<211> 129

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37
 <223> n = A,T,C or G

<400> 508
 ctgttaaaaag aacaaaactta gcaatatata acagttinggt aacaggattt ttgactattc 60
 actttgggag ttatttttaa aaatccactt ttttactgag tcttactaca taccaggcac 120
 tgtacttgg 129

<210> 509
 <211> 422
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 52, 105, 107, 166, 176, 197, 232, 239, 241, 252, 255,
 280, 365, 416
 <223> n = A,T,C or G

<400> 509
 ntgggaagtc gtgacatcca tgggaaccca ggcgtgtgat gctgggtgttt gngttctccg 60
 cgagaagtga ccattgttgg agcaccatcc agagctagtg accantncag tggacagtta 120
 gtgggagaat caaaaatcct ttccagaatg tctgtttctc actaentgca ccgggngatt 180
 acaggcacca gtgcagngat gattgtactt atttgacaca tactccccgt cntcctggnt 240
 nttgttctctg anaanggtgg gtaaataatc caggaaaaan aatgcacatt gaatggatgt 300
 gagagaccac attgcctctc ccactgcttt ggggagcact ttctgtcat ttctaactta 360
 ccacntgctt ggtgtactat atgtatgttg tgcctcatat gttgcaaaga actaangtga 420
 gt 422

<210> 510
 <211> 238
 <212> DNA
 <213> Homo sapiens

<400> 510
 ccacctatga attggtgggt tacctactca atggatagca gcacgaggac tgctgtactg 60
 cacaaaaaga agaccaaag attacagtgg accatgggat acagaagcca gcatggcaga 120
 cagaagaaaa atagtttggg aacatgtaac taccctaagt ggaagttttg ttgtaggat 180
 tatagtaatc acaccacatt acttggcctt tcggtaatgt gaaaaaaaaa aaaaatcc 238

<210> 511
 <211> 254
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 34, 169, 228
 <223> n = A,T,C or G

<400> 511
 ccnattgatt tgatggtaag ggagggatcg ttngggctcg tctgttatgt aaaggatgcg 60

tacggatggg agggcgatga ggactaggat gatggcgggc aggatagttc agacggtttc 120
 tatttcctga gcgtctgaga tgtagtatt agttagtttt gttgtaagng ttaggaaaag 180
 ggcatacagg actaggaagc acgataagga aaatgactat gagggcgnga tcatgaaag 240
 tgataagctc ttct 254

<210> 512
 <211> 269
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 38, 49, 103
 <223> n = A,T,C or G

<400> 512
 cctacctgta aactacagta ctttatatat ctatgggntt aataaaaaana aaatccacaa 60
 atcttaaaaa ggaactttta atgcagggt atattgaatt ggnaaactgc aacacaaact 120
 ggcgcaacat aggtaaatga ataccaatct cactctatgt gatgcaagca tgctactttc 180
 ccactaattt aaattacttt caaccactat gagccagaat gcatgcctga accttaaaact 240
 gcactttaaa aagtaacatc ttggcctaa 269

<210> 513
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 34, 79, 137, 149, 154, 157, 217, 245, 251
 <223> n = A,T,C or G

<400> 513
 ggaggggggt tgtagggggg tcggaggaga aggntgggga acagctaaat aggttgttgt 60
 tgatttggtt aaaaaatant agggggatga tgctaataat taggctgtgg gtggttgtgt 120
 tgattcaaat tatgtgnttt ttggagagnc atgncantgg tagtaatata attgttgaga 180
 cgattagttt tagcattgga gtaggttttag gttatgnacc gtactctagg ccatatgtgt 240
 tgganattga nactagtagg gctagg 266

<210> 514
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 32, 33, 39, 51, 52, 61, 62, 65, 75, 108, 112, 120, 123,
 127, 129, 132, 141, 142, 157, 173, 179, 210, 219, 220, 224,
 231, 232, 235, 240, 242, 245, 251, 259, 266
 <223> n = A,T,C or G

<400> 514
 acatgcaana aatcgagaat cttaaaaaaac annacgaanc tgccctggaa nnettactgg 60
 nntangatat ttatnttgcg gctgagatac ttgaacaact tcggatonga antagacaan 120

aanggggnant tntatactgc nncagaggtt acacagntca ttgtattaga gangaacana 180
 tgggtctggg gttcacacat tgggggggaan atgggcgttnn acangagagg nnganaaaacn 240
 anganagcct ncctgggtng cataanaaaaa a 271

<210> 515
 <211> 328
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 23, 25, 32, 64, 112, 125, 149, 157, 202, 216, 245, 256, 267,
 297
 <223> n = A,T,C or G

<400> 515
 ccaatgaggg gcaaagtgag cgncnagaag angttttgac tgaaataaat caaacacaaa 60
 aatntaagtt cacagtgaca gtttaaaca aatccaaaca aactaacaac anaaacaccc 120
 cttgntttgc ctctagtga aggtgggana acacaanctc gtcctaaaaa ttgactagta 180
 aaggggaaaa cccggtcatt tncctactct ttccangaaa tatctaatagc aagaaagaac 240
 ttctnctcat tatacngaag gaatttngaa aaatgatgta tttttggaac acctaantga 300
 aatactggaa cctgggcaag ttcaccac 328

<210> 516
 <211> 220
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 5, 52, 118, 162, 168, 174, 195
 <223> n = A,T,C or G

<400> 516
 ncctnagttg aaggacccca tgtacatata ggccagggga gcagtactag gntaactaga 60
 aggatctcat ccccatatgt gggctcattt caagtctatg gatgactacc ttcattgntg 120
 tgtgcgagat ggtttcaccc cttgaaaata tgggcacttc ancataanat agcnaaatct 180
 ttataatgat caatncatcc tacctccttt tacatgcatg 220

<210> 517
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 517
 tgcgattttct tccttggtgt ttgctttggt ctgtgttcaa tccagagagc tttaaattgtc 60
 attattttgg gaagaaaacc tgtatttttg ttagtttaca atattatgaa atttcacttc 120
 aggagaaact gctgggcttc ctgtggcttt gttttcttag tttctttttc cgtgccgtgt 180
 attttttaat tgatttttct tcttttactt gaaaagaaag tgttttatatt tcaaatctgg 240
 tocatattta cattctagtt cagagccaag ccttaaactg tacagaattt ccactg 296

<210> 518
 <211> 299
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 36

<223> n = A,T,C or G

<400> 518

```
gaagatagaa aaatataaaag ccaaaaaattg gataanatag cactgaaaaa atgaggaaat 60
tattggtaac caatttatatt taaaagcccg tcaatttaaat ttctggtggt gcagaagtta 120
gaaggtaaag cttgagaaga tgagggtggt tacgtagacc agaaccaatt tagaagaata 180
cttgaagcta gaagggaag ttggttaaaa atcacatcaa aaagctacta aaaggactgg 240
tgtaatttaa aaaaaactaa ggcagaaggc ttttggaaga gttagaagaa tttggaagg 299
```

<210> 519

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 455

<223> n = A,T,C or G

<400> 519

```
gctgcacatc ggaggaaaac tcggtaaagc agaatgaggt tgatatgttg aatgtatttg 60
attttgaaaa ggctgggaat tcagaaccaa atgaattaaa aaatgaaagt gaagtaacaa 120
ttcagcagga acgtcaacaa taccaaaagg ctttggatat gttattgtcg gcaccaaagg 180
atgagaacga gatattccct tcaccaactg aatttttcat gcctatttat aaatcaaagc 240
attcagaagg ggttataatt caacagggtga atgatgaaac aaatcttgaa acttcaactt 300
tggtatgaaa tcatccaggt atttcataca gtttaacaga tcgggaaact tctgtgaatg 360
tcattgaagg tgatagtgc cctgaaaagg ttgagatttc aaatggatta tgtggtctta 420
acacatcacc ctcccaatct gttcagttct ccagngtcaa aggc 464
```

<210> 520

<211> 221

<212> DNA

<213> Homo sapiens

<400> 520

```
ctgatatcta cttatttaac acaagtctct aatacaatac aattttatta attttattcc 60
acatgcccc aattagatct ctagactcat tcatcctaca tacctacttt gtatcctttg 120
acctacatct ccctacttcc tcctccagtc cccaccccc acccactggg gctaaccact 180
gtttcattcc ctttttcatt ctacatatgt gagatcatgc t 221
```

<210> 521

<211> 312

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 37, 38, 238

<223> n = A,T,C or G

<400> 521
 ctgatagctt tctcttcgcc tagattaata tcttctnnct tcccattcac agccccacc 60
 gacatcaaag ctttgctgtt ttatctgtca aaaatgtctt cacacttttc attcttaaatt 120
 aaaagtgtcg agtaaggaca ttttcacaac aaatttttat tttacaaaac ttacaatgat 180
 ttgaatccaa aacaactttc attattttaac tgtaaagtaa atatataatt tattaggngt 240
 gtcttagttc attttgtgct gctttaacag tgtatccttg tgatagttgt ggggtggggg 300
 aggggggaag ga 312

<210> 522
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 522
 ccttctttcc ccactcaatt cttcctgccc tgttattaat taagatatct tcagcttgta 60
 gtcagaccca atcagaatca cagaaaaatc ctgcctaagg caaagaaata taagacaaga 120
 ctatgatatc aatgaatgtg ggttaagtaa tagatttoca gctaaattgg tctaaaaaag 180
 aatattaagt gtggacagac ctatttcaaa ggagcttaat tgatctcact tgttttagtt 240
 ctgatccagg gagatcacc ctctaattat ttctgaactt ggtaataaaa agtttataag 300
 atttttatga agcagccact gtatgatatt ttttaag 336

<210> 523
 <211> 172
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 5, 9, 11, 21, 49, 56, 60, 65, 66, 83, 88, 92, 113, 129
 <223> n = A,T,C or G

<400> 523
 ngacnggcnc ntggctatgt ntatagatag ggctttaacc actatctgng aagcangagn 60
 gacannattc ttgctctcac atnccacngg anaogtattt ctcttctctt acnagcgaag 120
 aaccatctnt ttctaaagcc cccattctat tgcccttgct tttctctggtc tt 172

<210> 524
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 524
 ccagaocctgc agaaaaactt agcacagctc aatctgctgt tttgatggct acagggttta 60
 tttgggtcaag atactcactt gtaactattc caaaaaattg gagtctgttt gctgttaatt 120
 tctttgtggg ggcagcagga gcctctcagc tttttcgtat ttggagatat aaccaagaac 180
 taaaagctaa agcacacaaa taaaagagtt cctgatcacc tgaacaatct agatgtggac 240
 aaaaccattg ggacctagtt tattatttgg ttattgataa agcaaagcta actgtgtgtt 300
 tagaaggcac tgtaactggg agctagttct tgattcaata agaaaaatgc agcaaacttt 360
 taataacagt ctctctacat gacttaagga acttatctat ggatattagt aacatttttc 420
 taccatttgt ccgtaataaa ccataacttg ctaaaaaaaa aaaaaacott c 471

<210> 525
 <211> 332

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 36, 60
<223> n = A,T,C or G

<400> 525
ccccnctgta ttccagcctg ggtgacccca tctcanggaa gaaaagttac cagatgtcgn 60
gggtaaaggt tggctttcaa gtggcctcat aagttgtctt gcattttaat tcagggaatt 120
cattggacca atagggttaca ttttcgttcc ttttttgttt tggttcatct gttaagcagt 180
gggggcctaa ttactgctcc tttgtaaaaa cacattttcc caaagaacac tgaattaccg 240
ttcaaactgg ttgttgatgg gtaataaggg ctgtttttgc tgccccaaaa gggcttaaca 300
atthagcgcg atagtttact taaaaaaaaa aa 332

<210> 526
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 36, 241, 258
<223> n = A,T,C or G

<400> 526
ccaggttacc tcccctaaca gatgtggtgt tctganggggt tggttaagtg cccgaggaaa 60
ataggcctta actgttaaca tctacagaga agaaagcatg gtcacactgg caaggagtaa 120
gaagggattg ggtaaaagaa aatgggagag aaaagggaaa aaagtttttg caagacaatt 180
gttccttgct aagaagctgc agggtgaaag ctttcctttc ttctattttt gtttttaatg 240
nctgtctctc tgatcagngg aaaagtgaag atttctagta tctagcacta acgtatgacc 300
caactttgag ggatcacaag ctagaacaag ttgaggattt aaaatcctgg ataattatat 360
acttaaagtt catgagcata aagctcactt gaccatgcag aaatgctggg aagcagggtg 420
catggcatgg gaatacatct 440

<210> 527
<211> 124
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30
<223> n = A,T,C or G

<400> 527
tttccatatg tctgttgggt gcataaatgn cttctttctga gaagtgtctg ttcctatcct 60
ttgccccctt tttgaggact taaatgttag acctaagacc ataaaaaccc tagaagaaaa 120
ccta 124

<210> 528
<211> 162
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 35

<223> n = A,T,C or G

<400> 528

```
ctgcgggaga aatatgggga caagatgttg cgcangcaga aaggtgaccc acaagtctat 60
gaagaacttt tcagttactc ctgccccaaag ttctgtgcgc ctgtagtgcc caactatgat 120
aatgtgcacc ccaactacca caaagagccc ttctgcagc ag 162
```

<210> 529

<211> 409

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 34, 35, 270

<223> n = A,T,C or G

<400> 529

```
cctttaaaat atagcttata aaatgtatac tatnngccag gagagctcac atttttctgc 60
agttttccag tggacctgcc tatggaatac tgtaaagaaa aatctgcaaa aatattccta 120
gcaattgaat cagtgccttt aaataaaaaga agtggagagg ggcttggtta aattattctg 180
acaagttttc ttgctagtgg ttgccaaaat taaggatatt tgaagtgtcc tatcacccaa 240
atttggcttt aagaaaaagc tatattctgn gtctataggg tgaagccac actatctgtg 300
ctgcattctc aatgatacaa tacctatctg gaaactttcc tgttttgcca atgggtgcac 360
aaatctaaaa cattttatca caaaaggtac ttgaatttaa atttctttt 409
```

<210> 530

<211> 325

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 39, 47, 96, 254, 264

<223> n = A,T,C or G

<400> 530

```
cgcacagtgt gatggatata tgcagaattc gccctttcna gatitgngcc cgggcaggtc 60
catggctagg attatagata gttgggtggt tggggnaaat gagtgaggca ggagtccgag 120
gaggtagtgt gtggcaataa aaatgattaa ggatactagt ataagagatc aggttcgtcc 180
tttagtggtt tgtatggcta tcatttggtt tgaggtagt ttgattagtc attggtgggt 240
ggtaattagt cggntgttga tganatattt ggaggtgggg atcaatagag ggggaaatag 300
aatgatcagt actgcggcgg gtagg 325
```

<210> 531

<211> 173

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37
 <223> n = A,T,C or G

<400> 531
 ccaattgatt tgatggtaag ggagggatcg ttgaccnctg ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt tag 173

<210> 532
 <211> 395
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 41, 331, 344, 369
 <223> n = A,T,C or G

<400> 532
 caggctctac tatgggtggt aaatttttta ctctctctac ngggtttttt cctagtgtcc 60
 aaagagctgt tcctctttgg actaacagtt aaatttaca ggggatttag agggttctgt 120
 gggcaaatatt aaagtgaac taagattcta tcttgacaa ccagctatca ccaggctcgg 180
 taggtttgtc gcctctacct ataaatcttc ccactatttt gctacataga cgggtgtgct 240
 cttttagctg ttcttaggta gctcgtctgg ttctgggggt cttagctttg gctctccttg 300
 caaagttatt tctagttaat tcattatgca naaggtatag gggntagtcc ttgctatatt 360
 atgcttggnt ataatttttc atctttccct tgccg 395

<210> 533
 <211> 290
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 215, 216, 237, 244, 249, 265, 267, 283
 <223> n = A,T,C or G

<400> 533
 ctgaaccatt atgggataaa ctggtgcaaa ttctttgcct tctctacttc tcaactgattg 60
 aacataagct tccagggtc cctgaaaaac caaatgaaa acaatgtcaa aatattagat 120
 aaatcacata aaacagttta ggggatacca atatataaaa attattaggt aagctcattt 180
 ctggaactgt taatgctcgg ttccacaatc caagnngacc aacagccttc actcagntac 240
 tggngagtgt actatgggta ctacngntac tacctttagt gtnaaaaact 290

<210> 534
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 43, 44, 96, 126, 219, 228, 239, 248, 263, 287, 299, 310,

318, 322, 323, 330
 <223> n = A,T,C or G

<400> 534
 ccgccagtgt gatggatata tgcagaattc gcccttagcg agnnagccgg gcaggtccat 60
 ggctagggtt atagatagtt ggggtggttg tggggnatga gtgaggcagg agtccgagga 120
 gggtantttg tggcaataaa aatgattaag gatactagta taagagatca gggtcgtcct 180
 ttagtggtgc gtatggctat ctttggtttt gagggtagnt tgattagnca ttggtggng 240
 gtaattantc ggctgttgat ganatatattg gaggtgggga tcaatanagg gggaaatana 300
 atgatcagtn ctgcggcngg tnngacctcn gccc 334

<210> 535
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 536, 538
 <223> n = A,T,C or G

<400> 535
 nccataagct tcagtgcgca aaaggtcaag gccagtgtta atttgttatt tcttaaataa 60
 ctttcccttt cattttttaa ttataaattt aacttctaac atgttttatg gttaaaattg 120
 tacttttttc ctttagcgac attcaaagtc atcacaaatca ctttgtgaaa ttgttcgcct 180
 gagcagagac cagatgttac aaattcagaa cagtacagag ccgaccccc tgcttgccac 240
 tctagaaaag tatgtgtaaa actctgttct tgttcttctt tcatattgat gctgttccat 300
 gtgttaccat tgtgagtgtt tggttaagtgt tccttatgtg ggaatcatgt gccttgaaaa 360
 taaccttggg tgggtgagaa ggtagggaata cctgcttctt ttatctcaag taaaagtttt 420
 ggcagggtta agaagataaa tgacatttat atctagactt ttgagttttc caattatttg 480
 gtaaaaatgg gaaattctgt agaagccctt ccttaaaaat gggggaagtc catttnanaa 540
 aattaactgg taggtca 557

<210> 536
 <211> 372
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37
 <223> n = A,T,C or G

<400> 536
 gttccaacct tcattttctga aactgttcta gagcacngtg tctttctcgt agttcataac 60
 ttaccccttc agtctagaat tagaattaca ttatctgttt tactacttta ctagactgta 120
 agctcctaga agataaggac tagggagttc atctctgtat tccaccagaa ggtacagtga 180
 ctcatatcta gagtcttttag atgaaactta ctgagttgaa taacttaata tatttctgtt 240
 ttcatcccca agggaggcca tgtctggaga tagacctga atttaataaa ttttaggcac 300
 tataccattt cagtggagaa aattgttggt aaatttggtg ggatggatat ataaggggga 360
 ggaagtcact gg 372

<210> 537
 <211> 284

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 37
<223> n = A,T,C or G

<400> 537
ccttctgatg caaacagaaa ggaaatgttg tttggangcc ttgctagacc tggacatcct 60
atgggaaaaat ttttttgggg aaatgctgag acgctcaagc atgagccaag aaagaataat 120
attgatacac atgctagatt gagagaattc tggatgcgtt actactcttc tcattacatg 180
acttttagtgg ttcaatccaa agaaacactg gatactttgg aaaagtgggt gactgaaatc 240
ttctctcaga taccaaacaa tgggttacc agaccaaact ttgg 284

<210> 538
<211> 293
<212> DNA
<213> Homo sapiens

<400> 538
gtacatagta ggtgtatata tttatgggct atataagatg ttttgataca ggcattgtaat 60
gtgaaacaag cacatcaaca agaatggggt atccatcccc taaaacattt gtcctttggg 120
ctacatgtca tttcctaattg taaagaaaat ggacagacag aaccaacatt gatttgactg 180
ggtgaaaaag tccatttgag ttggggagcag ggggtgtgtt cctggatttg ggttgtagg 240
acagtgtaaa aaggcttcac aggggaacat tctttctga taaaggaaag cag 293

<210> 539
<211> 468
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 35, 36, 59, 251, 367, 436, 437
<223> n = A,T,C or G

<400> 539
tttcnataaa ctttattttt agagcagttt taagnnggta gcaaaattga ttagaaggna 60
cagagatgtc ccatacacct cctactccca cacatgcaca gccttcccca ttatcaatag 120
cccccaacag agggatacat ttgttaacaa ctgacgaacc tacatatcat tatcacccaa 180
agtccacagt ttatattatt ccttctggag aattttcaaa tacagaaatt cctctaccag 240
gaataaacta ncaatttcct ctcggtttc tataaattta attattattt cagaaattag 300
cctatcttta caggagaaaa tgttataaac catgaaaaga ctatcaaata cacaaggaag 360
tgaatgntat ataaaaaatg taccatctcc taaacaacta cctgcattcc ottcttggtg 420
gtaagttata atttggnata gttctgatca tctgtttaat taatttgc 468

<210> 540
<211> 397
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> 35, 360
 <223> n = A,T,C or G

<400> 540
 ctgtttttatt aattccccca ttgtcagcac acttntctct tccaacattc atcagtcaga 60
 tcagagtcga cgggtcttttc aaaattttaga taaactgggc tacattttgt aatgatgtcc 120
 ccagacaaca cccactcca acccattctg ttgttacta ttagtttaca acatgcatgt 180
 gcctttactt tcattttcat agtattttaa aatggaaggc cactcccaa tttactttaa 240
 cccctttaat aatctctctc ctctgctct ctctggctct ccagacaact gttgatttac 300
 tttcctttat gatggattag ttgtcatttt ctagaatttt atatgactga catataaagn 360
 ttttatgttt ctcccctttg ggtttcttca tgtggca 397

<210> 541
 <211> 248
 <212> DNA
 <213> Homo sapiens

<400> 541
 cctagatagg ggattgtgcg gtgtgtgatg ctagggtaga atccgagtat gttggagaaa 60
 taaaatgtgc atagtggggg ttttatttta agtttgttg ttaggtagtt gaggtctagg 120
 gctgttagaa gtcttaggaa agtgacagcg agggctgtga gttttagggt gagggggatt 180
 gttgtttgga aggggggatgc gggggaaatg ttgttagcaa tgagaaatcc tgcgaatagg 240
 cttccggc 248

<210> 542
 <211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 75, 123, 364
 <223> n = A,T,C or G

<400> 542
 aatcgccct ctagatgcat gctcgagcgg ccgccagtgt gatggatato tgcagaattc 60
 gcccttgagc gatanccgg gcaggtccaa ttgatattgat ggtaaggag ggatcgttga 120
 ccnctctgt tatgtaaagg atgcgtagg atgggagggc gatgaggact aggatgatgg 180
 cgggcaggat agttcagacg gtttctatt cctgagcgtc tgagatgtta gtattagtta 240
 gttttgttgt gagtgttagg aaaaggcat acaggactag gaagcagata aggaaaatga 300
 ctatgagggc gtgatcatga aaggtgataa gctcttctat gataggggaa gtacgctctt 360
 gtanac 366

<210> 543
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 543
 cctactatgg gtgttaaatt ttttactctc tctacaagggt tttttcctag tgtccaaaga 60
 gctgttctct tttggactaa cagttaaatt tacaagggga ttttagagggt tctgtgggca 120
 aattttaaagt tgaactaaga ttctatcttg ggcaaccagc tatcaccagg ctcggtagg 180
 ttgtcgctc tacctataaa tcttccact attttgctac atagaagggt gtgctctttt 240
 agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300

ttattttctag ttaatttcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
 tgggtataat ttttcatctt tcccttgagg tactatatct attgcgccag gtttcaattt 420
 ctatgcgcta tactttattt gggtaaatgg tttggctaag 460

<210> 544
 <211> 116
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 42, 46, 95
 <223> n = A,T,C or G

<400> 544
 ccgccagtgt gatggatata tgcagaattc gcccttttga gngctngcgc ccgggcaggt 60
 ctgttttcagc agtcctcctt tttttttccc gcgangatct cgagccttga tcttgg 116

<210> 545
 <211> 380
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13, 18, 102, 104, 123
 <223> n = A,T,C or G

<400> 545
 cgacggatcg atnagctnga tatcgaattc ggacgagcat ggcgtattgc tgcagatatg 60
 gattcttcag aatgctccat gacaaatgta ctgacgggaa gncnatctaa aggaggcatt 120
 gtnatgagag aaaggtctcg agctccagat aaagagagat acagagttct tgggaattgga 180
 gttgcagaaa cagtaagaca atcgattgtg gggaagcggt ctttttagaga atctttggcc 240
 ttcactccaa agcgttgttc ttcatacata ataagtagct cgtgccgaat tcctgcagcc 300
 cgggggatcc actagttcta gagcggccgc caccgcggag gagctccagc ttttgttccc 360
 tttagtgagg gttaatttcg 380

<210> 546
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 546
 ccagggcaat taggcaggag aaggaaataa agggatttca attaggaaaa gaggaagtca 60
 aattgtccct gtttgccgat gacatgattg tatatctaga aaacccatt gtctcagccc 120
 aaaatctcct taagctgata agcaacttca gcaaagtttc aggatacaaa atcaatgtac 180
 aaaaatcaca agcattotta tacaccaata acagaccaac agagagccaa attatgagtg 240
 aactccatt cacaattgct tcagagaata aaatacctgg gaatccaact tacaagggat 300
 gtgaaggacc ttttcaagga gaactacaaa ccaactgtca aggaataaaa agaggatata 360
 aacaaatgga agaacattcc atgctcatgg gtaggaagaa tcaatatcat gaaaatgg 418

<210> 547
 <211> 172
 <212> DNA

100754099

<213> Homo sapiens

<400> 547

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cctgaggttg ggagaaattt tgtccatttc tttagaacca aaattggcaa ccagagagta 60
tttgatggtt acacaaaata tctagtttcc ctttctagcc taaattgggt tgtttatagc 120
acccgtctct ccatttgaga aaaatgggta ggatgctggg gcagggatga gg 172
```

<210> 548

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 340

<223> n = A,T,C or G

<400> 548

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ggtctgactt aagagaaaca atggaaggca agaggcagta gaataatata ttcaaaagat 60
gcaaaggaaa aaaacctctc agccacgaat tccttatcca gcaattattt ttcaaaaatg 120
aaaataacac aaagacttag ccagataaac agaaacatta actgaagttg ttgctggcag 180
acctaccata taaaaataaa aaactctaaa aaaattccta tggctaaaag caagttacag 240
aagacagtca cttgaatcca cattttaaaa aaagcactga tatacgtaat attgacatta 300
taaaagacag taaaaatgca tttcttcttt ataataaatn gcttattaaa taacatgtgt 360
ataatgg 367
```

<210> 549

<211> 418

<212> DNA

<213> Homo sapiens

<400> 549

```
ccaaatcaga acctagagtg agcattctat aaactcacct ttgctttgat ccttgaagat 60
cacaagtttt gatactgttg aaatctctac tctttcaaca ctttaattaa atggcattta 120
gaatttcata tacttctgtt gttgtttcca caatcttaaa ctggatttag aaatacttat 180
aatgtaaatg caagagcttt aacttagtaa ccgtatttcc tattttttgt tgtttttctt 240
ttgccagaat ttctgtttgt ctacaataaa gtccagcgaa atacagtatt tggtttaggt 300
acttggttaac ataaaatttt atcatttgta gagtttttac ttaaccttcc tattctctag 360
tctctataat ctttcaatga agataaccag ttacgaatat ctctataacc atattagg 418
```

<210> 550

<211> 234

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 15

<223> n = A,T,C or G

<400> 550

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cctaccgcc gcagnactga tcattctatt tccccctcta ttgatcccca cctccaaata 60
tctcatcaac aaccgactaa ttaccaccca acactcacia caaaactaac taataactaac 120
atctcagacg ctcaggaaat agaaaccgtc tgaactatcc tgcccgccat catcctagtc 180
```

ctcatogccc tcccatccct acgcatacct tacataacag acgaggtcaa cgat 234

<210> 551
 <211> 542
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13, 14, 29, 160, 190
 <223> n = A,T,C or G

<400> 551
 caccctacc ccnntcctca taaaagttn c tctccctgga tctctctttt cccatcatgag 60
 tgcccgggttg cccaagtcaa aaacctggga gtgatataaa ctccccacac atccagtcag 120
 tcaactcatca actctattga ttctgtctgc taaatataatn tcaattgtat taacttaaac 180
 atatgcatan ggcactttct tcttcaactgc atttttgtgg gctgcactta cctttcaggt 240
 aacgacaaca ctggcccctc ttgcccttct agtcagaagt gccaaaatga tgagagctag 300
 ccatgacaaa cccacagcca acattacact gaatgtgcaa aactggaagg gcatccaaac 360
 agaggagggg agagaggaat agacaggaag tcaaactgtc tctgtttaca gatgacatgt 420
 ttctatatct ataaagcccc atagtcttgg ccccaaagct tcttctgctg ataaacttta 480
 gcaaagtctt agcatacaaa atcaatgtgc aaaaattact aacagtccta tacatcaagt 540
 ca 542

<210> 552
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 6, 25, 209
 <223> n = A,T,C or G

<400> 552
 cctggntgac aaggaggtgc ctgtnatgtg aagatttgag gaaagagcat tccaggcagg 60
 gggaaggctt gatgcaaagg gtctactgca ggcattagct gagcttattt aaagatcaga 120
 atgaaggcca ttgtggctag aacagagtgg acaggaagga atggtaccag gcaaagctga 180
 agaagttggc aggattgagc tctcataant catggcaaag agttccatt tcatgtttg 240
 acggaataa attggaaggt cttaagtagg agaagattg attagattta cattttacga 300
 agaagcactc tggatgttat gtgaagaaat ggcctttgca gggcaagggt ggaaacaaag 360
 agatcagtta ggaaattatt ggagtagctg aggattggat gaggggatgt g 411

<210> 553
 <211> 631
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 395, 574
 <223> n = A,T,C or G

<400> 553

```

ccgggattag aactaaaaca agtgagatca cccctctaatt tattttctgaa cttgggttaat 60
aaaagtttat aagattttta tgaagcagcc actgtatgat attttaagca aatatgttat 120
ttaaaatatt gatccttccc ttggaccacc ttcatgttag ttgggtatta taaataagag 180
atacaacccat gaatatatta tgttttataca aaatcaatct gaacacaatt cataaagatt 240
tctcttttat accttctca ctggccccct ccacctgccc atagtcacca aattctgttt 300
taaatacaatg acctaagatc aacaatgaag tattttataa atgtatttat gctgctagac 360
tgtgggtcaa atgtttccat tttcaaatta ttanaattc ttatgagttt aaaatttgta 420
aattttctaaa tccaatcatg taaaatgaaa ctgttgctcc attggagtag tctccaccc 480
aaatatcaag atggctatat gctaaaaaga gaaaatatgg tcaagtctaa aatggctaatt 540
tgtcctatga tgctattatc atagactaac gacntttatc ttcaaaacac caaattgtct 600
ttagaaaaat taatgtgatt acaggtagag g 631

```

```

<210> 554
<211> 558
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6
<223> n = A,T,C or G

```

```

<400> 554
ccaggntagt ctccaactcc tgaccttagc tgatccaccc acctcggcct cccaaagtgc 60
tggtattaca ggcattgagc actgcgccc gccaacttg atatgcattt ttaaataagt 120
taatacatta ttcatggttt agtctcatta tatattctat ggtccacttt gaaatttcoat 180
ctaaccacaaa tcatcttcat cctgcaattt gaggtttgga cacaatgggg attgatcagt 240
aattttcttca tatgcccttt ctcaaggaaa tagtttctta tgaaaaaaaa gtcctatggt 300
ttcatgtaag ttctcttttt ggagaagaaa aggagacatt cttacttagc actctcagtt 360
ttacaaaacg ctgccaacct taaaatttgt ctattgattc ccaaggcaca caaccaatag 420
tctgtcaata accoggaata acattttctt aaggccccag taactttcac atgtttgggt 480
tccaatcctc acctagaatc ttgttaagaa aagtaaacca ttcactcctc tagaaactct 540
aaggttgctt cttagggg 558

```

```

<210> 555
<211> 212
<212> DNA
<213> Homo sapiens

```

```

<400> 555
ccaggatatt gcataatggc ttttcttctg ttgcctttgt tcctttgtgg cccagctaa 60
ttgctgaga gtgccactgt tagttttcaa ctctttctga tagaaaccct gtgtactaac 120
atggaaatct taggtaatct gctttttcaa agcacaatgc agaatttatt ggcggtgggtg 180
taactttaag aatatccgag aagccaccaa gg 212

```

```

<210> 556
<211> 219
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 214, 216
<223> n = A,T,C or G

```

```

<400> 556
ccatgtgtct atctggagag aaggggaaac agcaagtgca aaggccctga gatggaacat 60
atctggagaa ttogaagaat ggtaagaagg ccagagtgga gcagaacaag tgtgggagag 120
agttgtagga gatgagatca aaggctagga atgaagtgta aggccatgtc atgtgacctt 180
gtatgtcctt gtaaggcttt tttttttttt ttttncct 219

```

```

<210> 557
<211> 482
<212> DNA
<213> Homo sapiens

```

```

<400> 557
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
aatTTaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tatagggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt 420
ccatcgcccta tactttattt gggtaaatgg tttggctaag gttgtctggt agtaagggtg 480
ag 482

```

```

<210> 558
<211> 679
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 5
<223> n = A,T,C or G

```

```

<400> 558
ctgtnaaaat tctgaacctt tccccaaaag aaaaaccgtg aaatacaagt tttaggagggt 60
ggagcaaaga aaagccaagt tattttaaac caataaacac aagagacaat tctgctggag 120
aatTTacttt ctccaaaaca tcaaatggac tttaaagcag aagaccacat tttatgagaa 180
agttatgtca ctgaaaagct tcatgtaaag tgactttgta aatggaatat ttttaaataga 240
taaaaagaaa ataacttttc caggaatcct ttggagaggc tgataaccag atattaaatt 300
atcaattttg ccaaagtgga cttttaaaaa atgtgttact tttaaaaact aacttgaaag 360
aatTTatgag gcaatctatc tgagtatggt tattgttgct ccattggctt tcaggatttt 420
ggtcatttca ctgttaactc ttacatcaga gaataaagaa aagaaaatga aactttgtta 480
ggaaactggga tggaaaatgt agtcccagac agatctactg acctcgactg agtttcagaa 540
atatcccagg attttggtta ttcatgcctt tcttttggtga ctttctttca aattagccaa 600
ttaaagatac ccttcaatc accggtgaca tcagtacaac agtttttcaa cagttttctc 660
tctcctgacc aaacagttt 679

```

```

<210> 559
<211> 488
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```


<222> 393, 407, 420, 450

<223> n = A,T,C or G

<400> 559

```

ccccactgta ctccagcctg ggtgacccca tctcaaagaa gaaaagttac cagatgtcat 60
gggtaaaggt tgggtcttcaa gtggcctcat aagttgtctt gcattttaaatt tcagggaatt 120
cattggacca atagggttaca ttttcgttcc tttttgtttt tggttcatct gttaagcagt 180
ggggggcctaa ttactgctcc tttgtaaaaa cacattttcc caaagaacac tgaattaccg 240
ttcaaactgg ttgttgatgg gtaacaaggg ctgtttttgc tgccccaaaaa gggcttaaca 300
atttaggcgg atagtttact taaaaaaaaa aatcctttgg agacatactg aaaatgcaaa 360
ctagttttcta aattatcaat tccctacatg aanaagcagt ttgccanagt ttagtctcan 420
aaaatgactg gttggctcta tttaaatan aacccaattt ctacgcacct gcccgcccg 480
ccaagggc                                         488

```

<210> 560

<211> 602

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5, 566

<223> n = A,T,C or G

<400> 560

```

cctanttaag aattccttgc cttagtgggtg aacaaggact aaacacagac aatgggtgaa 60
acacagacgc taattcacat aacagagagt aggcaacctt aagaatgaat tgatgcagac 120
tctatagaa ttctctgtt atgactgggt tcttattttc tctccttgt atgtagtga 180
aatttcatca ttatgaatag ttcttggat ctttttttaa agttgtgaat gcgagtgttt 240
ggctttgtaa tacaactttt tagtatccag aagataacca gtgctctacc aataaagatc 300
ttttgataca aagggtttta acttctgcc gttcttactc atttttttca ggttttttat 360
acatttctta aacaacacat acattatgta aaatataaga attaatgtac attctcaagg 420
ccagattcag tgacaaaatg cactaccoga atctagttaac acatttactc cttgctgcat 480
ataagtggcg tgtaagaaat acagggtata ttgttttgtg atccatgcag taaatgttca 540
caaatatcag gcaaacaact agacgntctt cagctactaa aattaactgt ccagtcaca 600
aa                                         602

```

<210> 561

<211> 683

<212> DNA

<213> Homo sapiens

<400> 561

```

gtctattttt aaaaagaaag aaaaaaacca cttttttata gtccctagct ttgccatag 60
ccgccttaa gtggaaggaa agttaatcac ttaactatgt tttataaaaa gaaaaaagg 120
cttggaatgc tattactgtt cacacaaagt atgattctgt ttgaataagg caaatgctcc 180
ttttttttaa aaaagacatt actgtaatat caaaaaccgt ggcagtgtgt atacaactct 240
gggcttgatt tttttttaa aaacagaatg aattgatgtc ttattttata aatgttctat 300
atttattagg agaaaacttt atattgcctt ttttatcaat catgtaacag gottatagct 360
ttccaacaga gctgcttgcc aaacaatttt tttgtttat taaacagtgc tgaacaaaac 420
aggatcagca tttacttaag atgttaagaa tgaggacttt taatcagccg aaccaagata 480
ttgttacctg tatgcattcc caaagtctag atgctcagta tgttcagtc tatctttcag 540
aatcagtga cggattacco tttttttggt attcactcta catctgccaa ctagttcac 600
cttgggtttt tgtctgctgt agaagggaac cataacttgg ttaaaccgta gggattatca 660

```

ttgtatacat gctgtgaaca tgt

683

<210> 562
<211> 420
<212> DNA
<213> Homo sapiens

<400> 562
gcactttttt tccagtaagg attcatctct tgctctccta tatggtcatt atattttata 60
ttttacatat ttataaacat gacatatgta tttatgttcc acaaagggct ttgaatagaa 120
tttacacata gagttccctg ggttgatgtg tttatcaaaa tggaagataa agtgaattaa 180
ttacttaaat atttaacact attgaataga aataatttcc ccaatattgc ttcattgattt 240
agacagtcta ttaaattgtt aagcaaggca ctgactaag tttattaaga caaatttttg 300
aatatgtgca gaaatatgac ctggctaata gtacagagtc aaagctggtt gaattggtgtt 360
atatagtgga ttcagattga tgtggcagtg gtggttacac taggggcact aagggttatcc 420

<210> 563
<211> 482
<212> DNA
<213> Homo sapiens

<400> 563
ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag tataggcgat 60
agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac 120
caagcataat atagcaagga ctaaccctta taccttctgc ataattgaatt aactagaaat 180
aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac ctaagaacag 240
ctaaaagagc acaccctgtc atgtagcaaa atagtgggaa gatttatagg tagaggcgac 300
aaacctaccg ggcttgggtg tagctggttg tccaagatag aatcttagtt caactttaac 360
tttgcccaca gaacctctta aatccccttg taaatttaac tgtagtcca aagaggaaca 420
gctctttgga cactaggaaa aaaccttgta gagagagtaa aaaatttaac acccatagta 480
gg 482

<210> 564
<211> 302
<212> DNA
<213> Homo sapiens

<400> 564
ctggaagtga aggtactaat atacaaatgg ctcttgtttc tgaatatgtg atataatttg 60
tgaatctttg gaaactgaat tttttctatg gagtgc aaat atagaagggg tattttacaa 120
tggttggtgt gaaaagaatt cactttgtta acaactatta aggctggaag tttagtgaag 180
gtgcatagtt ttgaaagcta cacaggtgaa aaatcaaact tattgtttgt aattttgctg 240
ttacatgtta agttactttg acagcaattt tctaatagata atgtgattta tgatttaaaa 300
gg 302

<210> 565
<211> 554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 4, 5, 37, 38, 550, 551

<223> n = A,T,C or G

<400> 565

```
ccanngtgac atcatggcaa tacagcaaga attctggnat ttatttagaa gcctcaagga 60
gaaggatcct ggagcccctg aatgagagtt tcttctccat gcctctcccc agtcaaaata 120
catggaaata ttcatagaag cattgtaccc agcatgataa ggaaggatgg agaattgggtc 180
cttatatctc tggtcacaaag acatcaacac tcttaagtaa ctgtatgaaa taaattctct 240
gctgaaagca aataaaccat ctgaaaggct tcttggttac ttacacagat ttcctagaga 300
atctgaaatc agcctaacag ggaagattaa tttttaaatg aatccaagtt aatgaaagca 360
aagaactctt atacagaaat acattttcct attataaagc aggactacct tccctaattt 420
ctgatagacc taggacaatt tgaatgggca ttgaaattct tttggttgaa ttacgcaaac 480
aagcaaagga aaagtctcaa ttattattgg aaaatttggg gagagattat tatctcttga 540
tctcctagtn natt 554
```

<210> 566

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 14, 15, 35

<223> n = A,T,C or G

<400> 566

```
ncgaagctgt gaanncattc acacggaatc tgganggtat tactgtaact tottataata 60
cataatataa aagtttttga aagatataga cacaattaac ccctaataca cactatct 120
gattctcaaa agcaatggct atttaacaag atgtaaaagg acaataacat atcaaagaac 180
tttcacacac cttaaagatag catttagcag caagttagtc agacaaaaca aacataaata 240
tcttcacatt tctatgtttt gtttttaact ttacttcata aagccactga taattgaggt 300
ttctttcaag tataagattt ctaaaattaa aaactgtttt tgacatattt ttataaagaa 360
ataaaaagca aaacgcaatc caactattta tatgagtccc tcttctccaa cagctttaga 420
tggttttctg agtacttttt acacagaata tttttattaa aatcagttct aattcattta 480
tgcagattag gggaaaatga ttcataataa attaacttta aaattacctt ctatctgctt 540
ctacctctat cccccatca ccaccaaact tggttgctaca gtgaactgta gccaatgtct 600
gtttgagggg gcccaaagca tctggtaatc t 631
```

<210> 567

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6, 39, 87, 97, 111, 113, 161, 163, 179, 210

<223> n = A,T,C or G

<400> 567

```
cctatnatag cttctctagc tatcatactc caatcagcna aaaatgagaa aatggttgaga 60
aatagaagat aattcctcat ttaaggncac cttctanaat ttgtgcttaa nantctgttt 120
tcttctcatg ggccagcact tcggcaactg ggaaaaatta ngngtacagg gatctaggna 180
atactgttta tttgagcaat aatatattgn gctaacgttc aggcatccta ttactgagaa 240
ataagggaaa atgagtgtaa agtacaacta agagtctcgg ctacagggaa aaataccatc 300
agttaaatat ccatagtcct agagcattta tgtaaaactg caatttgaat cctgcaatac 360
```

```

atTTTtggctt tttcctcagt gataccatgt gtgggaagtt gttctgtcaa ggtgggtcgg 420
ataatttgcc ctggaaagga cggatagtga ctttcctgac atgtaaaaca tttgatcctg 480
aagacacaag tcaagaaata ggcattggtg 510

```

```

<210> 568
<211> 180
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 11, 34
<223> n = A,T,C or G

```

```

<400> 568
ttaatntgac ncacgcttat gcggaggaga atgntttcat gttacttata ctaacattag 60
ttcttctata gggatgata ttgggtccaat tgggtgtgag gagttcagtt atatgttttg 120
gatttttttag gtagtgggtg ttgagcttga acgctttctt aattgggtggc tgcttttag 180

```

```

<210> 569
<211> 237
<212> DNA
<213> Homo sapiens

```

```

<400> 569
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt caggaaaagg 180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaag 237

```

```

<210> 570
<211> 352
<212> DNA
<213> Homo sapiens

```

```

<400> 570
ctgtctctcc atttagagcc ccagttgggtc ctgacctctt acaaatttgg tgttttcact 60
ttgatgttta tgaaccgatt gcattaaaaa tgcaggataa tgattcaggg ttagagaaac 120
tattatttat acaaatgtgg ttaacacctc atcattttta attggctgtg ctaataatgc 180
tcattgtgct cttcagggtt atgtgtgtgt gtgtgtgtgt gttttgcctg aatctgcaac 240
ctacatttgc tctggcagta tgttgagtat atgctagaat agaattggacc taggcaactc 300
taaggtccta caactaaata cacttactta ggaaacctcc taaataagta gg 352

```

```

<210> 571
<211> 402
<212> DNA
<213> Homo sapiens

```

```

<400> 571
ctgattttta caataactac tgtgttcctg gcaatagtgt gttctgatta gaaatgacca 60
atattatact aagaaaagat acgactttat tttctggtag atagaaataa atagctatat 120
ccatgtactg tagtttttct tcaacatcaa tgttcattgt aatgttactg atcatgcatt 180
gttgaggtgg tctgaatgtt ctgacattaa cagttttcca tgaaaacgtt ttattgtgtt 240

```



```

ccagatntga cttttcaaaa ctactcacat tgtgaaaaan gcaggaacaa atctagtttc 60
aagttcagca tgccgttccc tgtttaattc ataaaacaca actggcagaa gtattacttg 120
aagcaaaaca aaagtaacgt gggaacttgc ttatttgcta agccacaatg tatttttcca 180
ggaatagcat aaatttgcca tctttcttgt gtctatggaa aaggggttta gaattgtttc 240
actaaaaatt aaatttctat attgtcaaac atgattgtat actcaaattt taaaatgtga 300
agggaacact tactaagcat ttcttgggta tgccactata ttaagtccta gtaatatgat 360
atagttttatt tcaatttttt ttcaactcat acttccttta aaatagcact gaccaaaga 420
aagttaacat gagcttcatg tacaattttt aatctttttg cagaaaaata aactgagaaa 480
ggctaaaatt gttttattta agccactata ccaagacata ttgatttcac caatataaaa 540
attgagatag tttacatttt ttggtacatc tttaaaatct ggtatgtatt tttatactga 600
cagcacatct caatttggac aagctacatt tccagggctc aatagtcacc atgaatctca 660
attgtaatca aagaggttgg cctg 684

```

```

<210> 576
<211> 134
<212> DNA
<213> Homo sapiens

```

```

<400> 576
ccttatttct cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg cacc 134

```

```

<210> 577
<211> 133
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14, 25, 27, 34, 117
<223> n = A,T,C or G

```

```

<400> 577
ctgtctctcc attnagaagc cccantnggt cctnaoctct tacaaaatttg gtgttttcac 60
tttgatgttt atgaaccgat tgcattaaaa atgcaggata atgattcagg gttaganaaa 120
ctattattta tac 133

```

```

<210> 578
<211> 200
<212> DNA
<213> Homo sapiens

```

```

<400> 578
cctcaaattc atcttcaaag gtgaccacgc aatcagtgtc aatgccttta ctgtagttaa 60
cctggtaatt tcattcttta gtctctccaa gaaaatctga agtgtattag gcaagtcaga 120
acccaaattg tctccaaggt tgcaaataat ttgtcccata caggaaatag ccctttcctt 180
gacttctctg tcaatgtcag 200

```

```

<210> 579
<211> 402
<212> DNA
<213> Homo sapiens

```

<400> 579
 ctgatttttaa caataactac tgtgttcctg gcaatagtgt gttctgatta gaaatgacca 60
 atattatact aagaaaagat acgactttat tttctggtag atagaaataa atagctatat 120
 ccatgtactg tagtttttct tcaacatcaa tgttcattgt aatgttactg atcatgcatt 180
 gttgaggtgg tctgaatggt ctgacattaa cagttttcca tgaaaacggt ttattgtgtt 240
 tttaatttat ttattaagat ggattctcag atatttatat ttttatttta ttgttttcta 300
 ccttgagggtc ttttgacatg tggaaagtga atttgaatga aaaatttaag cattgtttgc 360
 ttattgttcc aagacattgt caataaaagc atttaagtgt aa 402

<210> 580

<211> 245

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 80, 114, 217, 233, 237

<223> n = A,T,C or G

<400> 580
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgan gactaagatg atggcgggca ggatagttca gacngtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaaagca gataaagaaa atgactntta gggcgtgatc atnaaanggg 240
 ataaa 245

<210> 581

<211> 294

<212> DNA

<213> Homo sapiens

<400> 581
 tgcagcgcaa gtaggtctac aagacgctac ttccoctatc atagaagagc ttatcacctt 60
 tcatgatcac gccctcatag tcatttttct tatctgcttc ctagtcctgt atgccctttt 120
 cctaacactc acaacaaaac taactaatac taacatctca gacgctcagg aaatagaaac 180
 cgtctgaact atcctgcccg ccatcatcct agtcctcacc gccctcccat cctacgcat 240
 cctttacata acagacgagg tcaacgatcc ctcccttacc atcaaatcaa ttgg 294

<210> 582

<211> 230

<212> DNA

<213> Homo sapiens

<400> 582
 gaggtcgccc tcatagtcac ttctcttacc tgcttcttag tctgtatgc ccttttctta 60
 aactcaciaa caaaactaac taactactaac atctcagacg ctacaggaaat agaaaccgtc 120
 tgaactatcc tgcccgccat catcctagtc ctcatcgccc tcccatccct acgcatcctt 180
 tacataacag acgaggtcaa cgatccctcc cttaccatca aatcaattgg 230

<210> 583

<211> 481

<212> DNA

<213> Homo sapiens

<400> 583
 ccaaggggtgt tctgcctgcc tcagcctccc aaagtgctgg gattacaggt gtgagccact 60
 gtgcctgacc acaggaaaac ttattttaaat gagagatttg actcgaaaga tcccgttttt 120
 ttaaggctct tagttcttaa aagcggcaca taatagaatt agtataatcc caaataaatt 180
 ttcagtagat ttttggtgta acttgagaag atgattctgt catttttagt gacaatttaa 240
 aagacctgaa attgtctaca gccatagaaa gtgaactact gatagttgtt tctgtaaagt 300
 tttattggaa cacaaccaca cctatttggt catctgtatt gtctttgggt actttgtgca 360
 gagaccatgg ccacacaaacc taaaacattc actttctagc tctttaagaa ataattggcc 420
 cactgacacc ctggtcttaa ggtctagacc aattatttct caagagtatt agctgaatca 480
 g 481

<210> 584
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 584
 ccaattaaga gctaaaattta caaaataatc totatcagga ggctttaagg tttaatgtct 60
 ctaaagtccc tatggatata agaggcttga atgtactgaa ttcaaatttg gtttttaaat 120
 gttataatag tttaggcccg agagccacat atttctgtct aagaatagaa agcatagcta 180
 gctgccca cagaatattc atatagaggt ggggggcaag aacaaaattt attcatttga 240
 tacatagaaa tgggactact tagaatagac tcataataga aagcatcatc tggtttctca 300
 tctcag 306

<210> 585
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 585
 ccagaatggg acagagtgga ggggtgttctg ctaatgactt cagagaagta ttttaagaaa 60
 acatagaaaa acgtgtgcgg agtttgccag aaatagatgg cttgagcaaa gagacgggtg 120
 tgagctcatg gatagccaaa tatgatgcca ttacagagg tgaagaggac ttgtgcaaac 180
 agccaaatag aatggcccta agtgcagtgt ctgaacttat tctgagcaag gaacaactct 240
 atgaaatgtt tcagcagatt ctgggtatta aaaaactaga acaccagctc ctttataatg 300
 catgtcag 308

<210> 586
 <211> 416
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 105, 119, 132, 139, 140, 144, 159, 160, 208, 226, 230, 247,
 250
 <223> n = A,T,C or G

<400> 586
 cctgtctttg aatggatgaa ataggttaat aaaaaacatc actgtttaaa aactagaaca 60
 ctgaaaaatt ctaggaaagc ttattttccc ttatatTTTT atggnacttt caacacttna 120
 caacactatt tnaattaann tttnttctag agtttatann atatcagtac attcttttct 180
 gtggatgcaa taatatagaa tcttattnca aatottactg gcaggntctn ttaaattctt 240
 caacgngtgn catagtgatt aacccaaaatt agttatgatt tctgcctatc tgtgtgagaa 300

cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360
atgatgacag tcattttata tcaccttcaa ttaccaaca gcttttaata gtctgg 416

<210> 587

<211> 382

<212> DNA

<213> Homo sapiens

<400> 587

cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
ttgtcgctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctgggttctg ggggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tc 382

<210> 588

<211> 307

<212> DNA

<213> Homo sapiens

<400> 588

cctactcttc tccgtccatt gtactatctg cccgtgggtg ggatggcagt aggatcatat 60
ttgatgactt ccgagaagca tattattggc ttogtcataa tactccagag gatgcgaagg 120
tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaatttttag 180
tggaacaata cacatggact aatacccata tttctcgagt agggcaggca atggcgctcca 240
cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctgggtcattt 300
ttggagg 307

<210> 589

<211> 89

<212> DNA

<213> Homo sapiens

<400> 589

cctgggtgat tgaggatgca atgagctgtg attgtgccac cacactccag cctgggcaat 60
acagcaagac tgtctcaaaa aaaaaaaaaa 89

<210> 590

<211> 456

<212> DNA

<213> Homo sapiens

<400> 590

cctcagttct tgattgtggg tgacggggcg tcaccatgaa ggagcccatt tagtataaag 60
cttccaacct tttctcttaa tcgtttcttt aatcttttaa accatcttca agtgcataag 120
ggagtttccg atgccagagg atgaaagcaa gtgctctctc caccctctcc tcccagagtg 180
aaaacaaatc cttttgctga tacttgtttc aaaagcatcc attgtaaagc ttctcagtga 240
cacaaaatac tgagaggtaa ctttttatca atcaaaaccac ataccccaat ttaacacctt 300
tcaatgctct gaattcaact gacagactaa aggggtgttt ctgtaacagt ctgaaatatt 360
aagtgttttt tttgttttgt ttttaaatct tatttcagaa aacttcctct tggggtagga 420
aagtacacat gaagcagcaa agtaacgaag aaaaaa 456

<210> 591
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 591
 ccaattgatt tgatggtaag ggaggggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacgggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgcg 289

<210> 592
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 250, 316, 325, 392, 430
 <223> n = A,T,C or G

<400> 592
 cgcgtagat gcgccttttc cggcctgtgc gtctgctctg gttcctctca ggcagcaaag 60
 ctggggaagg aagctcaggc aggagcctcc ccgacaccac agcggcacia gcagcagcta 120
 aagcaccgca ctttgcctctg ctaacctttt acttaaatga ggttttgcc aatccacatc 180
 tggaaccgca tcacacccat ttgcaaggat gtttgttctt tgatgaaact gcatctctac 240
 tgcacatgan ggctttcatt gtaggacaag aggagagttc gtttattttt gtaactgttt 300
 tacatgttcc gattanttaa tcggnagctt atgtcatttg ctatgcctgt tgtcttctaa 360
 tctctcctta ctaaaacatt acttcaaatt tnaattgacc cttgtttata atttatttaa 420
 cgggatttgn gtgtc 435

<210> 593
 <211> 633
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35, 620
 <223> n = A,T,C or G

<400> 593
 ctgttttagtc agataattgt gtccgaattg attangaaaa taatagacca gccataaagc 60
 agcataaaaat attatgaaac tattccagaa gttcagtaat atctttggga cctgctcata 120
 gcccaagttt tgtgaatact tttgtagtta aaaaaaattt ttactttacc agggcattgc 180
 aattcttttc catcagtga tttcattcta cagacttttc agagcatctc ataatacagtc 240
 aacaaatcta tttcaaatgt gtttgttact aagcaacggg tgctaagagc ttctgtaatt 300
 aagatgaaag ttccaaggta acaatgcccc aacacagcac cattttcacc attttctgat 360
 aatgcaggag taggatggct aaaagtgaag gaagaatcta ctctatggaa agcatggcac 420
 ctgaaatttc tgaagatatt ggctgtcctc tagcttatat gagagagagt gtttggtgctt 480
 tactaatcaa ccagtcattt ttttcttggt tggttgaaat gtacattcca gacatgaaca 540
 ggtagagtat gtgttgggg caggtttata ctgcatgggt gtgctgagac agggccacgt 600
 ggtgatgtaa atgatgctgn ctgacacgtg cag 633

<210> 594
 <211> 501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 34
 <223> n = A,T,C or G

<400> 594
 cctttacaag atgctggtac cttgatcttg gacngggcag gctccaagat ggaaagaaag 60
 tgagcatctg ctttttaggg attatccagt ctatactact ctgttctagc cacacaaaac 120
 aggttaagac agaaattggg accaagagtg ggggtgttact acagcaaata cctgaaaatg 180
 tagaagaggc tttgaaatgt ggtaattgga agaagctggg agaatttgga ggagtaggct 240
 agaaaatgtc tgtattttca tgaatggagc attaagaata attccgggtga ggccataggg 300
 aaagtctaaa acttttcaga aattatgtaa gcgattgtga ttagtagggt ggtagaaata 360
 tagacagtaa aagcaattct gatgtgggtt cagaggaaaa tgaaaaatat tagaaactga 420
 aggaaggggc atccttgcta taaactggca aagaacttgg ctgaaatgtc tccatgtcca 480
 agagatttat ggcagaaatg t 501

<210> 595
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 595
 ctggtcacca tcatcccttt aatcaactca cacctgttta aagagtgttt ctgatttgac 60
 ctccatccct tagtttactg gcgttaaaaa aagtctcagc aattttcatt atttctcgtg 120
 ggtctcatta tcaaaccttt acttatttcg gcatatttcc tctgggcttc ttctagtttc 180
 tgccttacaa gcaatgctgt tctgtaaatt tattgaaacc tctggaacat ttcaccttta 240
 gagatggagg atggaaggat tgggtaccaga agagggctaa gatacgtttt ctgtcttgag 300
 ctgaaagcac agtctactct ccttcgtttt gtcgatgaga aagttgaggc cagaggggag 360
 gtgacatggt tagagtcacc cag 383

<210> 596
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 596
 ccatggctag gtttatagat agttgggtgg ttggggtaaa tgagtgaggc aggagtccga 60
 ggaggttagt tgtggcaata aaaatgatta aggatactag tataagagat caggttcgtc 120
 ctttagtggt gtgtatggct atcatttggt ttgagggttag tttgattagt cattgttggg 180
 tggtaattag tcggttggtg atgagatatt tggagggtgg gatcaataga gggggaaata 240
 gaatgatcag tactgcggcg ggtagg 266

<210> 597
 <211> 383
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> 35
 <223> n = A,T,C or G

<400> 597
 ctggtcacca tcatcccttt aatcaactca caccngttta aagagtgttt ctgatttgac 60
 cttcatccct tagtttactg gogttaaaaa aagtctcagc aattttcatt atttctcgtg 120
 ggtctcatta tcaaacccttt acttatttcg gcataatttc tctgggcttc ttctagtttc 180
 tgccttacia gcaatgctgt tctgttaaatt tattgaaacc tctggaacat ttcaccttta 240
 gagatggagg atggaaggat tgggtaccaga agagggctaa gatacgtttt ctgtcttgag 300
 ctgaaagcac agtctactct ccttcgtttt gtcgatgaga aagttgaggg cagaggggag 360
 gtgacatgtt tagagtcacc cag 383

<210> 598
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 598
 ccatggctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggg aggagtccga 60
 ggagggttagt tgtggcaata aaaatgatta aggatactag tataagagat cagggttcgtc 120
 ctttagtggt gtgtatggct atcatttggt ttgaggttag tttgattagt cattgttggg 180
 tggtaattag tcggttggtg atgagatatt tggaggtggg gatcaataga gggggaaata 240
 gaatgatcag tactgcggcg ggtagg 266

<210> 599
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 201
 <223> n = A,T,C or G

<400> 599
 ccaattgatt tgatggtaag ggagggatcg ttgaccacgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca nataaggaaa atgactatga gggcgtgac atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgccg tgca 294

<210> 600
 <211> 213
 <212> DNA
 <213> Homo sapiens

<400> 600
 agatattggg ctgttaattg tcagttcagt gttttaatct gacgcaggct tatgcggagg 60
 agaatgtttt catgttactt atactaacat tagttcttct ataggggtgat agattggtcc 120
 aattgggtgt gaggagttca gttatatgtt tgggattttt taggtagtgg gtgttgagct 180
 tgaacgcttt cttaattggg ggctgccttt agg 213

<210> 601

```
<220>  
<221> misc_feature  
<222> 1  
<223> n = A,T,C or G
```

<400>	601						
ncctactatg	ggtgttaaat	tttttactct	ctctacaagg	ttttttccta	gtgtccaaag	60	
agctgttcct	ctttggacta	acagttaaat	ttacaagggg	atttagaggg	ttctgtgggc	120	
aaatttaaag	ttgaactaag	attctatctt	ggacaaccag	ctatcaccag	gctcggtagg	180	
tttgtcgcct	ctacctataa	atcttcccac	tattttgcta	catagacggg	tgtgctcttt	240	
tagctgttct	taggtagctc	gtctggtttc	gggggtctta	gctttggctc	tccttgcaaa	300	
gttatttcta	gttaattcat	tatgcagaag	gtataggggt	tagtccttgc	tatattatgc	360	
ttggttataa	tttttcatct	ttcccttgcg	gtactatatc	tattgcgcca	ggtttcaatt	420	
tctatcgctt	atactttatt	tgggtaaatg	gtttggctaa	ggttgtctgg	t	471	

```
<220>  
<221> misc_feature  
<222> 32  
<223> n = A,T,C or G
```

<400>	602						
tgagcataca	gcaataaaaa	taacataatt	tntatgtgta	caatatattat	ggaatacgtt	60	
actggaacag	ataaataatt	tagttaataa	catgacaaag	aacagaaatt	gtatacacta	120	
tacagcatag	taatagaata	atgaatgatt	aaagttatta	atattaggtg	gaaaatgaag	180	
ggtatctttg	agagcagaac	tcaaggaagc	aagcaatttg	ccttatgagg	aaagagttac	240	
ctgtggataa	aggagaaaact	gaaaaattta	caagtcaaga	ctttttgagc	aaaaacaaaa	300	
atatgactat	gagtcaccaa	ttcagtacag	tgaaaaaaaa	gttgaagaga	tatcttggaa	360	
gtaaaccatg	ttgtggaaga	gcagggtttt	gataatcatg	ggattattct	gaatgaattt	420	
taaatgcat	aggaatatat	gagataattt	caccagagaa	taatatgatc	atgtttgcat	480	
tt						482	

```
<210> 603
<211> 372
<212> DNA
<213> Homo sapiens
```

<400>	603						
gttccaacct	tcatattotga	aactgtttcta	gagcacttttg	tctttctcgt	agttcataac	60	
ttaccoccttc	agtctagaat	tagaattaca	ttatctgttt	tactacttta	ctagactgta	120	
agctcctaga	agataaggac	tagggagttc	atctctgtat	tccaccagaa	ggtacagtga	180	
ctcataacta	gagtccttag	atgaaactta	ctgagttgaa	taacttaata	tattttctgtt	240	
ttcattccca	agggaggcca	tgtctggaga	tagaccttga	atttaataaa	ttttagggcac	300	
tataaccattt	cagtgggaaa	aattgtttggg	aaattttgggg	ggatggatat	ataagggggga	360	
ggaagtcact	gg					372	

<210> 604
 <211> 468
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 37, 199, 412, 460
 <223> n = A,T,C or G

<400> 604
 gcngttttga gtgagtttct taatcctgag ttctggnttg attgcactgt ggtctgagag 60
 atagttttgtt ataatttctg ttctttttaca cttactgagg agagctttac ttccaagtat 120
 gtggtcgatt ttggaatagg tgtggtgtcg tgcagaaaag aatgtatatt ctggtgattt 180
 ggggtggaga gttctgtana tgtctattag gtccgcttg tgcagagttg agttcaattc 240
 ctggatagcc ttgttaactt tctgtctcgt tgatctgtct aatgttgaca gtgggggtgg 300
 aaagtctccc attattattg tgtgggagtc taagtctctt tgtagggtcac taaggacttg 360
 ctttatgaat ctgggtgctc ctgcattggg tgcacatata tttaggacag cnagctcttc 420
 ttgttgaatt gatcccttta ccattatgta atggccttgn ctcttttg 468

<210> 605
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 605
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactagatg atggcgggca ggatagttca gacggtttct 120
 atttctctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctagggaagca gataaggaaa atgactatga gggcgtgac atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg tctttagtagac ctacttgc 288

<210> 606
 <211> 572
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 399, 483, 488, 532
 <223> n = A,T,C or G

<400> 606
 gaatnaaatg aatgaaatag aaaatataat tgagagcttc aacaacagac tataccaaat 60
 ggaggaaaaa atttctgaac ttgaagatag atcttttgaa ataacacaag cagtggcaaa 120
 aatgaattaa aaagaataag gaaagcctaa aggatttatg agatatcatt aagcaagcaa 180
 atattcatac tatgggcatt ccagatggaa aaaagaaggg taaagggtgag gaaatcatat 240
 ttaatgaaat aatagcagaa aatttccgga gtcttgggag agagatgagc atttaggtcc 300
 agggagctca aagaacccca aacagattca acccaaacag gtcctctctg gagcccaaca 360
 tagtcaaatt gtaataagta aaagacaaag aattccaana agcattcaag agaaaagagt 420
 caagtcatatg ataagggaat ctccattagg ctaacagcag atatctcagc agaaagctta 480
 cangccanga gagaatggga tgatatattc aaagtacttg aaagcagggg tnggggaaac 540
 cctgctagct aaaaatatta tacccttgca aa 572

<210> 607
 <211> 178
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37
 <223> n = A,T,C or G

<400> 607
 ctggtggtaa tctcccagca agaggtcagg tcttggtgt ggtcccagg gtgtcagtga 60
 aattggctgc tcccctgacc cagggcacct tcatgctct tcacagcagg actactgtga 120
 ccaaggccag acctttcatc ttccaaga ctttgactaa aaatgctta aaaaagca 178

<210> 608
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 608
 cctgtctttg aatggatgaa atagggttaat aaagaacatc actgtttaaa aactagaaca 60
 ctgaaaaatt ctaggaaagc ttattttccc ttatatattt atggtacttt caacacttaa 120
 taacactatt tcaattaagt tttctcctag agtttatagt atatcagtag attcctttct 180
 gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc tttaattctt 240
 caacggctgt catagtgtt aaccaaatt agttatgatt tctgcctatc tgtgtgagaa 300
 cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360
 atgatgacag tcattttata tcaccttcaa ttaccaaca gcttttaata gtctgg 416

<210> 609
 <211> 648
 <212> DNA
 <213> Homo sapiens

<400> 609
 ctgatctctc agcagaaact cttcaaacca gaagagagtg ggggccaata ttcaacattc 60
 tttaagaaaa taattttcaa cccagaattt catatccagc caaactaacc ttcacaagt 120
 aaggagaaat aaaatccttt acagacaagc aaatgctgag agattttatc accaccaggc 180
 ctaccctaaa agagttcctg aaggaagcac taaacatgga aaggaacaac cagtaccatc 240
 gaggctagga agaaaccgca tcaactaagg agcaaaataa ccagctaaca tcataatgac 300
 aggatcagat tcacacataa cgatattaac tttaaagtta aatggactaa atgctccaat 360
 taaaagacac agactggcaa attggataaa gactcaagac ccatcagggt gctgtattca 420
 ggaaacccat ctacccgtgc agagacacac ataggctcaa aataaagggc tggaggaaga 480
 totaccaagc aaatggaaaa caaaaaagg caggggttgc aatcctagtc tctgataaaa 540
 cagactttta accaacaag atcagaagag acaaagaagg ccattacata atggtaaagg 600
 gatcaattca acaagaagag ctaactatcc taaatatata ttgcaccc 648

<210> 610
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 610
 ccagctcttc tctgtcacat tctatcttct gacttctgcc tggctttcag tttctgcccc 60

```

accttggtctt tttcccagct tgaacctaat agaactccag agtttggggg gaggcccagc 120
cctttgtttt ctgctcttga agcatattca cacataaaaa gttgtattct cttacacaaa 180
ctgttttgag gctcttaccg tagtcgaagg tatcttagat cttccttagt gatctcatta 240
agaatatccg aaagtgtata accctcttca acaatctgaa acaaagatca gatccttaag 300
agctgagcag                                     310

```

```

<210> 611
<211> 254
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 39
<223> n = A,T,C or G

```

```

<400> 611
ctgtttttac atctaaagca atagactaga actgaattnt cttctacata gtaaaatcac 60
aattgtggaa ttacaggaat tctggtgata ttaagggtgaa acaacaaaac acaaaaggcc 120
ctattttaac agttgatgtg acagtaagtt ttaatagaac ctgtaacttc attttggaaa 180
tgcttctcca ccaaataagg cctttttccc ctatttaagg agccagatgg attgaaagat 240
gtggaaatag gcag                                     254

```

```

<210> 612
<211> 225
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 40
<223> n = A,T,C or G

```

```

<400> 612
ctgactatat catgtcacca tcatagccaa tacaacattn ttgccatact tcctaaaaac 60
cttttcgcat acactgatca tgctacttat cagcactttc taacatcctg accaaacaga 120
caccacaccc tcttatagag tacactgtga gagaataaca tggacttgat atggcatcac 180
acttgtttta aagcaaaaaa aaaagaaaaa gaaaagaaaa aaaaa                                     225

```

```

<210> 613
<211> 471
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 226, 236, 243, 281, 324, 365, 370, 373, 376, 383, 400, 412,
429, 431, 458
<223> n = A,T,C or G

```

```

<400> 613
ccatcagact tcttgggtgc ctggctatat tcaatgtgaa gtaaaaaata tcccaagtct 60
tacacaaaaa tagaggctct gacttagaag tatgctttta gctttctttt taaataagac 120
attctggaag aaaaaaaaaa aaaaaggaaa gaaaatcaag ttgaaacac agttaacact 180

```



```
tatttttgga agaaagcaac caaaatctaa aaagcataaa ctatgngtcc aaatgnaaaa 240
ggnattacag aacaaactgc aagaggggaa aattaaagcc nactgaacg aaaaaataca 300
gtatgtotaa cattttggaa ttgnaattta aaccctaagg gcaaaagctg aaaaatcatg 360
cttanacctn ggncgngacc acnctaagg cgaattccan cacactggcg gncgttacta 420
gtggatccna nctcggtacc aagcttggcg taatcctngg catagctgtt t 471
```

```
<210> 614
<211> 421
<212> DNA
<213> Homo sapiens
```

```
<400> 614
gttattttttt agaatggctc tcccatcttg agtatgtgtg atgtttcctc atgtatgaat 60
gaagcatata catctttgtc agaagtatcc cagaagcaat tctgtactct cctcattatg 120
ttctattggg tgggccatgg tttttgattt gtctcattac tgatgatggg tacttttatt 180
atttgataaa ggttgtatat aacttatcta ttatggcata atacattagc taaaaccttg 240
gcggtgtaaa acagcagata cttacgtttc tcataggaat ggctctattg agtacctctg 300
tctcaaggct tctcaagagt ttgtagctac cttgttggct ggggttgcg tctgacctaa 360
aggcttagtt aggggggtgg agaaatcttc catatgttct ttgctacgtg gacctcacag 420
g 421
```

```
<210> 615
<211> 242
<212> DNA
<213> Homo sapiens
```

```
<400> 615
ctcctatttt attctagcca cctctagcct agcogttttac tcaatcctct gatcaggatg 60
agcatcaaac tcaaaactacg cctgatcggt cgcactgcga gcagtagccc aaacaatctc 120
atatgaagtc accctagcca tcattctact atcaacatta ctaataagtg gtccttttaa 180
cctctccacc cttatcacia cacaagaaca cctctgatta ctctgccat catgaccctt 240
gg 242
```

```
<210> 616
<211> 392
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 79, 91, 105, 110, 128, 141, 149, 163, 172, 178, 193, 206,
215, 264, 270, 276, 284, 297, 305, 315, 335, 342, 350, 351,
359, 373, 392
<223> n = A,T,C or G
```

```
<400> 616
cctaatttgt agattgtgaa agcagctttt agtttaactt atttacagac cccttataat 60
taccatgttt tttttttnt tcctaaatct nttgggttcag cttgngaatt ttacgtgcc 120
gtaaagtngg gatgttgaat nggcccttnt ttgttctggc agngagtcaa gngtccanca 180
ttttttcata agngtttttt aaaatngttc tccancattt tatggctcct ccctcccatg 240
tctcaaaacc cagcaaaagc gtanaggcan aattanagga cccnccggg cggcgntaa 300
gggcnaattc cagcncactg gcggccgtta ctagnnggat cnagctcggn nccaagctng 360
gcgtaatcat ggncatagct gtttctgtg an 392
```

<210> 617
 <211> 215
 <212> DNA
 <213> Homo sapiens

<400> 617
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
 gctgttcctc ttgggactac cagttaaatt tacaagggga tttagagggt tctgtgggca 120
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
 ttgtcgccctc tacctataaa tcttcccact atttt 215

<210> 618
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8
 <223> n = A,T,C or G

<400> 618
 cttttgtntg cctgttttgt ggactggctg gctctgttag aactctgtcc aaaaagtgca 60
 tggaatataa cttgtaaagc ttcccacaat tgacaatata tatgcatgtg tttaaaccac 120
 atccagaaag cttaaacaat agagctgcat aatagtatct attaaagaat cacaactgta 180
 aacatgagaa taacttaagg attctagttt agttttttgt aattgcaaat tatatttttg 240
 ctgctgatat attagaataa tttttaaatg tcatcttgaa atagaaatat gtattttaag 300
 cactcacgca aaggtaaagt aacacgtttt aaatgtgtgt gttgctaatt ttttccataa 360
 gaattgtaaa cattgaactg aacaaattac ccataatgga tttggttaat gacttatgag 420
 caagctgggtt tgg 433

<210> 619
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 619
 ctgcagtgtc cttttttata tcatgctagt gttgagacat acttgactaa cttgggaaca 60
 gttcgatata ttgacaaccg tcaacttaag aaaatcaaca gcttttggcc ccagcgtcca 120
 agtgaacttt tcatggagtg cagaatctca aatggacaaa atactttgtc tttttaaata 180
 ctgaaaattt aattattagt actatgactg aaagattctt catggctaaa aagctctgca 240
 tcaaactcaa ttcaggagg 259

<210> 620
 <211> 393
 <212> DNA
 <213> Homo sapiens

<400> 620
 ccaccaaagc cacacggaga ttctgtcagg cgctgagaca ccacagcctt ttcaatctta 60
 gggaaagaaa tcaagtcata taaattaata tcaacaggta aggtcattga gcaattgtct 120
 ttcaactgtc taagacttta tcaacttaaga tcataaacac agaagcagggt cataaaaaata 180
 gcttttctta aggttttagga gaattttagt gggcacttac ttgataatct gaattttcta 240
 gtcagaagtt taaataccac cttttaaaaa cataaaattt aatttgtaac aagttattaa 300

```

caaagcagta ttgtcgaaaag ttttaagctt tctcccaata atttaattac attaatataa 360
tttttaccat tctaattggtt acaaagtaac cag 393

```

```

<210> 621
<211> 563
<212> DNA
<213> Homo sapiens

```

```

<400> 621
ctgacaatga taaaattatc tctatatggg caaacgcgtg ctctttgtcg aagaagaaag 60
cttcagcttc atgttccagg tgagttaatt aggcaatgta tgaatgctaa tatctctttc 120
acatattttg ctttaagatct gtcttaggac tctcgtctgg cccatatggt tttccaaggg 180
cagaaggggc tctttttgat gagaggcagt tttcagtaac tcttaaagtg ataacagcaa 240
aggagaggag agagaagagt aagacaaatc gaaacattct tcaattgctt cttggccttt 300
tggttaagct caagctcaaa acaggtcttc aaggagaaaa tacatcacia agaaaaggat 360
gtttttatttc ttaccttgct ctgaaaaaat ttccataaac tctattggct taattctgta 420
aacttgacca atatcagagt gtttcctacc aaggagggtg gctgatgagc gtgaccatgg 480
tacatcctag aagaatgtgt gatgaagaag ctttcaccgt gtaaaagagt tgaaaattat 540
tcaaggagac attatggtct tgg 563

```

```

<210> 622
<211> 505
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 194, 436, 484
<223> n = A,T,C or G

```

```

<400> 622
tcttaagtgt gtttaataga taaagtaaac tttcctagtc aagggttaga tttttattat 60
ctcttggtgt cgcactttct acttttcaac tttgaacttc aaaaaaacat tacttttgctt 120
atcctttgta ctttgatcag gttgtttaga attgtagatc aaaccattct ttgatcattt 180
tattgtttta atgnntagtt ccattttataa tttttatagc caactctcgg ttttttctgt 240
cttttgagat tgcaattcag aagctgtatg tcgaagtaat ttatgagttg actttttatac 300
ttaggcttct ttaaatacta atagtcaaga attctagagc atctaataaa aaattaactt 360
tcagatcatt gggaatctgt cctcatttaa atatgtgtaa atgcatttcc acagcaaatt 420
gcttcatgcc ctttgnctat aaggaaatta ttccttgtag ctaatacatt tttcattttg 480
cagnccaaat cttttttgag aaagg 505

```

```

<210> 623
<211> 489
<212> DNA
<213> Homo sapiens

```

```

<400> 623
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcttc tttggactaa cagttaaatt tacaagggga ttttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
ttgtcgcttc tacctataaa tcttcccaact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttget atattatgct 360
tggttataat ttttcattct tcccttgctg tactatatct attgcgccag gtttcaattt 420

```

ctatcgctat actttatttg ggtaaatggt ttggctaagg ttgtctggta gtaagggtga 480
gtgggtttg 489

<210> 624
<211> 233
<212> DNA
<213> Homo sapiens

<400> 624
gttggggaac agctaaatag gttgttgttg atttggttaa aaaatagtag ggggatgatg 60
ctaataatta ggctgtgggt ggttgtgttg attcaaatta tgtgtttttt ggagagtcac 120
gtcagtggta gtaatataat tgttgggacg attagtttta gcattggagt aggttttaggt 180
tatgtacgta gtctaggcca tatgtgttgg agattgagac tagtagggct agg 233

<210> 625
<211> 459
<212> DNA
<213> Homo sapiens

<400> 625
ttcgagaaca tttttaataa ataatgtgac aaaattactt ttctgattat tggattttca 60
gtatgcaaaa ttatggctaa aaataagggg cttcttacat gaacataatg aaaacattaa 120
tcacatggat tgttccctta gtactgcacg ccttttctat ggaacttttt caaattatct 180
aaatgaacaa gtttggtttt ggtgaacacc agcctttttt tttgtggttc agttttgttt 240
ggctttgtct tccactgggg tcagacctga tacttatcta tctatgaata aatgtacatt 300
tttttcttca aatagcacca attataaaat caatgatatt cataaaatga caaaaaagga 360
tcatagaaat ctactagtca gagggcatca tttgtcaatt gaaagcaagt aatgcctcta 420
ttagagattt taaggaaatc ttgtagggtt cgacatttg 459

<210> 626
<211> 458
<212> DNA
<213> Homo sapiens

<400> 626
cctgatgatt gttttaaaaca gtagaaaagg ttcagctaag aactacagtc cactotcagc 60
cctgtcatgt actataggac aagtcttcat tcacaacaaa tggatagcaa caccaatctc 120
gtaacactgg gaaaactgca tacaatatat agaaggaaca ctaatacagc agaatctgca 180
cacaacggag tcaaagatct gaggccaaat cctactacac ttacgactt tgagttggtc 240
acttttctga accttagctt ctccatcagt gtaaaactga tgtaaaataa tataaagcta 300
tatgaaagct gatgtgattt acttgtgaaa tagtatgtgc aaaaggactt tgtaaaatgt 360
aaagcactat gctggttatt gtgatattctg agatattttt aaagttgcaa ttcaattcaa 420
caagcattca tttagagtca tgtgcaaggc actgtgct 458

<210> 627
<211> 393
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 6
<223> n = A,T,C or G

<400> 627
ccatnngaac gcactcagga ggtgggtttgt tctggatgca gaaaccagag atctagtttc 60
tatccacaca gacgggaatg aacagctctc tgtgatgcgc tactcaatag atggtacctt 120
cctggctgta ggatctcatg acaactttat ttacctctat gtagtctctg aaaatggaag 180
aaaatatagc agatatggaa ggtgcactgg acattccagc tacatcacac accttgactg 240
gtccccagac aacaagtata taatgtctaa ctcgaggagc tatgaaatat tgtactggga 300
cattccaaat ggctgcaaac taatcaggaa tcgatcggat tgtaaggaca tttgattgga 360
ccgacatata cctgtgggct aggaacttcca gga 393

<210> 628
<211> 233
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 35, 36, 192
<223> n = A,T,C or G

<400> 628
ctggatttat aaaatagttg aatgacaaaa gaagnntggt ttgacagtaa aaaaaagaca 60
ttatggacaa aatatgcaaa atgtgcaaaag aaaaaataaa ttgcatatag aaaggtgggc 120
atttgatctc tgagccctgt gccatgtaac attgccatgt tctttcactg ttgtttgaat 180
gttgtagccc ancccttgac tctggactta aggcaagcta tgactggctt tgg 233

<210> 629
<211> 450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 11, 240
<223> n = A,T,C or G

<400> 629
ccnggacaat ntaggcagga gaaggaaata aagggtattc aattaggaaa agaggaagtc 60
aaattgtccc tgtttgcaga tgacatgatt gtatatctag aaaaccccat tgccctcagcc 120
caaaatctcc ttaagctgat aagcaactcc agcaaagtcg caggatacaa aatcaatgga 180
cacaaatcac aaacattctt atacaccaat aacagacaaa cagaggccaa atcacgagtn 240
gaactctatt ccaattgctt tcaagaaaat taaaatacct agggatccaa cttacaaggg 300
acatgaagga cctcttcaag gagaaactac aaaccactgc tcaatgaaat aaaagaggat 360
acaaagaaat ggaagaacat tccatgctca ttggtagctt gatggggatg gcattgaatc 420
tataaattac cttgggcagt atggacctca 450

<210> 630
<211> 486
<212> DNA
<213> Homo sapiens

<400> 630
cctactatgg gtgttaaatt ttttactctc totacaaggt tttttcctag tgtccaaaga 60
gctgttctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180

```

ttgtcgctc tacctataaa tcttcccaact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300
ttattttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgcggt tactatatct attgcgccag gtttcaattt 420
ctatcgcta tactttatctt gggtaaatgg tttggctaag gttgtctggt agtaagggtg 480
agtggg 486

```

```

<210> 631
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<400> 631
ttacataaaa tattatacta gcatttacca tctcacttct aggaatacta gtatatcgct 60
cacacctcat atcctcccta ctatgcctag aaggaataat actatcactg ttcattatag 120
ctactctcat aacctcaac acccactccc tcttagccaa tattgtgcct attgccatac 180
tagtctttgc cgctgcgat gcagcggtag g 211

```

```

<210> 632
<211> 293
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 191, 262
<223> n = A,T,C or G

```

```

<400> 632
cagcgcaagt aggtctacaa gacgctactt cccctatcat agaagagctt atcacctttc 60
atgatcacgc cctcatagtc atttttcctt atctgcttcc tagtcttgta tgcccttttc 120
ctaactca caacaaaact aactaatact aacatctcag acgctcagga aatagaaacc 180
gtctgaacta ngctgccgc catcatccta gtctcatcg cctcccatc cctacgcac 240
cttacataa cagacgaggt cnacgatccc tcccttacca tcaaatcaat tgg 293

```

```

<210> 633
<211> 263
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 194
<223> n = A,T,C or G

```

```

<400> 633
nggtctgcag tgtccctttt tatatcatgc tagtggtgag acatacttga ctaacttggg 60
aacagttcga tatattgaca accgtcaact taagaaaatc aacagctttt ggccccagcg 120
tccaagtga cttttcatgg agtgcaaat ctcaaattgga caaaatactt tgtcttttta 180
aatactgaaa attnaattat tagtactatg actgaaagat tcttcatggc taaaaagctc 240
tgcatcaaac tcaattcagg agg 263

```

```

<210> 634
<211> 491

```

<212> DNA
<213> Homo sapiens

<400> 634
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tgcaagggga ttttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
ttgtcgctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300
ttattttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcattct tcccttgccg tactatatct attgcgccag gtttcaattt 420
ctatcgcccta tactttattt gggtaaatgg tttggctaag gttgtctggt agtaaggtgg 480
agtggggttg g 491

<210> 635
<211> 270
<212> DNA
<213> Homo sapiens

<400> 635
ccaattgatt tgatggtaag ggaggggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtggt taggaaaagg 180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgac atgaaagggtg 240
ataagctctt ctatgatagg ggaagtagcg 270

<210> 636
<211> 383
<212> DNA
<213> Homo sapiens

<400> 636
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaagggga ttttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
ttgtcgctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300
ttattttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcattct tcc 383

<210> 637
<211> 537
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 26, 516
<223> n = A,T,C or G

<400> 637
ttttaatcct ggggtatata ggcagnactt taaattgcaa agtcttccgg gcctattttc 60
ctctacattt ttgtaattaa ctctgggggc ttacttgttt tggcagtact gaaatcaaag 120
gagctgggtt ttcttttctc ccaattattt tcatatgaaa gcacctacaa ttagcctggt 180


```

gggtcccccaga caacaagtat ataatgtcta actcggggaga ctatgaaata ttgtactggg 300
acatttccaaa tggctgcaaa ctaatcagga atcgatcggg ttgtaaggac attgattgga 360
cgacatatata ctgtgtgcta ggattttcaag tattttggtgt ctgg 404

```

```
<210> 641
<211> 138
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 127
<223> n = A,T,C or G
```

```
<400> 641
ctgtgacagg aacattacct gaagtgcagg gtggttacct gcacaaagtc ccattttcaa 60
aaattttctgt gtaattcacc agaaattttg gatggaataa ttagaaaaaa aaaaagaggt 120
taaaacntgt aactcaaa                                     138
```

```
<210> 642
<211> 381
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 372
<223> n = A,T,C or G
```

```
<400> 642
ctgtaggttg aatttttacc cagaaaagat aggccttaga agcctcattt cttttctcca 60
tggaaaagga cagccctctg ctgcagcggt caacttgtgt gtttactgac agagtgaact 120
acagaaatag cttttcttcc taaaggggat tgttctacat tttgaagtta ttttttaata 180
aaattgaatt atgttgtgta ttgtgcttcc taataggaaa tgcattattg gactgttttt 240
gtaacatctt gttttattgc aatagctagt atcgttcaaa aactgtataa aatacttttg 300
tacatatccg caatgcttaa ttgtatata cttcagttaa atttccctaa aacttgaaag 360
gggaccttqt anaaattaaa a                                     381
```

```
<210> 643
<211> 403
<212> DNA
<213> Homo sapiens
```

<400> 643						
ccttcctaaa	aaatagtgg	gagctggagg	ctacttccgc	cttcttagcg	tctggtcaga	60
gagctgatgg	atatccatt	tggtcccgac	aagatgacat	agatttgcaa	aaagatgatg	120
aggataccag	agaggcattg	gtcaaaaaat	ttggtgctca	gaatgtagct	cgaaggattg	180
aatttcgaaa	gaaataattg	gcaagataat	gagaaaagaa	aaaagtcatg	gtagggtgagg	240
tggttaaaaa	aaattgtgac	caatgacactt	tagagagttc	ttgcattgga	actggcactt	300
atatttcgac	catcgctgct	gttgctctgt	gagtcctaga	ttttttagc	caagcacagt	360
tctagaqqgg	gataaaaaqa	aaaqaaattg	gatgtattta	cag		403

$\langle 210 \rangle$	644
$\langle 211 \rangle$	688

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 653, 666
<223> n = A,T,C or G

<400> 644
cctatatttatt tgttttggcc ctggatcttt cctaatacaca attatatatttc tttatttttg 60
cctttgagca gtttcattta tctttgtggg caggaagat taaatatgaa attcagtcca 120
gtcatttttg tactggtttag ctttagtttg aggcaagtaa aaatttttga ttaaaattag 180
tttcttaaaa ttatgccctt gctttaccaa ataatacaat tggctaaaaa ataagggtat 240
gtaactttgc attttgaaga acaaaccaat aatttttcat gagccctact cgatcttctt 300
taaagaagac cttcctaaga gacaattagg gatgagtttg attaattgga aatagctcta 360
ggttagatta ttttaaattc catacaccaa gtgatttaac cacagtggca gtggcagctt 420
ctgaaccgtc aagtatgaac atcacttaaa aattaaaaga tgcttaataa taaactctta 480
attttcatta agccaatctg taattcagaa gaaaagcata tgtctgccat gggactattg 540
cagtgcgtct ccatcagtg taacacagga gagatatgtt attttatgtg tatgtcttag 600
tttgggatat gtggtagtaa gaacatgtca agagtgcctt tcttcaaacc tgnacagctca 660
actgangaaa gacagggtact tccattgc 688

<210> 645
<211> 484
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 460
<223> n = A,T,C or G

<400> 645
ccaaatgtgt ctccagccca cacttccagg tggcagagcg agctctctat tactggaata 60
atgaatacat catgagttta atcagtgaca acgcagcgaa gattctgccc atcatgtttc 120
cttccttgta ccgcaactca aagacccatt ggaacaagac aatacatggc ttgatataca 180
acgccctgaa gctcttcatg gagatgaacc aaaagctatt tgatgactgt acacaacagt 240
tcaaagcaga gaaactaaaa gagaagctaa aaatgaaaga acgggaagaa gcatgggtta 300
aaatagaaaa tctagccaaa gccaatcccc aggtactaaa aaagagaata acatgaaaac 360
gcccagggtt acttgaatgt ttttataaga taggaatata tgtcttcacc atgggggggg 420
gtctcggatt tcactaacgt tgtatatgaa aatgggtgcn ataaaaagta cttttaaaact 480
ttgt 484

<210> 646
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 413
<223> n = A,T,C or G

<400> 646

```

gggtcgcgtt gaacaacttg gttcaagatg gtgggggcat ttttagagcg gcaataattg 60
aaaaaaaaagg cgaactctgc cttggagagg tagatgataa gaaataaaaa ggtgtttata 120
actattttgt attataaagt gggccttaga gataggaaga agaattgatg attccttttg 180
gatcaatcag aaaggaaaca cgaaagaaaa gtcagggaagg tagagagaga aaaagggagg 240
gaaggagaaa gaatgggaat aaaataagga ggtaagagat actatttttg ctgagcaacc 300
agtgtgtttc aggatgatac aaagaaaaat atagaataga aataagtgc ggcttggaat 360
cagctacaaa tcctaaagat ggggtgtgtg tggatgtgtg tgtgtgtgtg tgnacaccat 420
tgtgtgtttg taaaatgtgt atgtccc 447

```

<210> 647

<211> 388

<212> DNA

<213> Homo sapiens

<400> 647

```

gaaggtgata taaaatgact gtcattcatt ggagtgtgca gtacagttac ttcattgttcc 60
tcaggttttag aacaatttcc cctgcaagtt ctcacacaga taggcagaaa tcataactaa 120
ttttggtttaa tcactatggc agccgttgaa gaatttaaga gaacctgcca gtaagatttg 180
gaataagatt ctatattatt gcatccacag aaaagaatgt actgatatac tataaactct 240
aggagaaaac ttaattgaaa tagtgattatt aagtgttgaa agtaccataa aaatataagg 300
gaaaataagc tttcctagaa tttttcagtg ttctagtttt taaacagtga tgttttttat 360
taacctatct catccattca aagacagg 388

```

<210> 648

<211> 632

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12, 24, 33, 483, 539, 626, 629, 630

<223> n = A,T,C or G

<400> 648

```

cctggctggg cntttgacct gcgnttttaa atnactcaca gaggggtggga caggaggaag 60
agtgaaggaa aaggtcaaac ctgttttaag ggcaacctgc ctttgttctg aattggtctt 120
aagaacatta ccagctccag gtttaaatg ttcagtttca tgcagttcca atagctgac 180
attgttgaga tgaggacaaa atcctttgtc ctcactagtt tgctttacat ttttgaaaag 240
tattattttt gtccaagtgc ttatcaacta aaccttgtgt taggtaagaa tggaatttat 300
taagtgaatc agtgtgacct ttcttgtcat aagattatct taaagctgaa gccaaaatat 360
gcttcaaaaag aagaggactt tattgttcat ttagtttcat acattcaaag catctgaact 420
gtagtttcta tagcaagcca attacatcca taagtggaga aggaaataga tagatgtcaa 480
agnatgattg gtggaggagg caagggtgaa gataatctgg ggttgaaatt ttctagttnt 540
cattccgtac attttttagtt agacatcaga tttgaaatat taatgttacc tcctcaatgg 600
ggtggtatca gacctgcccg ggcggnncggnn tc 632

```

<210> 649

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 15

<223> n = A,T,C or G

<400> 649

```

nggtgaagat agaanaaata taagcgaaat tggataaaat agcactgaaa aaatgaggaa 60
attattggta accaatttat tttaaaagcc catcaattta atttctggtg gtgcagaagt 120
tagaaggtaa agcttgagaa gatgaggggtg tttacgtaga ccagaaccaa tttagaagaa 180
tacttgaagc tagaagggga agttgggttaa aaatcacatc aaaaagctac taaaaggact 240
ggtgtaattt aaaaaaaact aaggcagaag gctttggaag agttagaaga atttgggaag 300

```

<210> 650

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 4, 8, 26, 255

<223> n = A,T,C or G

<400> 650

```

ngtntgnta aacagaaggg tacaangccc ttctggcttt aagcagtcac aggaatgtga 60
cagacattcc tcttagggag cgcctcctcc tagggtttcc tcatctgtct cacactgagt 120
ggatgtaatg ctatttttaat cctgctgtgg cccccaatac tagtacttgt ccataccttc 180
ttgcattttt agcgtctgct ctgtgggggtt gttaggccct ggcaactcca ggaactagtg 240
ctaaagctgc atctntctct cccctctagg gatcgataaa gtttcaactgc agaaagtctc 300
cactgcggta tgctgacatc tgccctgaac cttcacccta cagcattaca ggctttaatc 360
agattctgct ggaaagacac aggcctgatcc acgtgacctc ttctgccttc actgggctgg 420
ggtgatcctt ggtgcctttg tttccacaag gccttttctc gccccctgcc ttgccaaaga 480
catttaatca gcacacag                                     498

```

<210> 651

<211> 654

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 149, 268, 375, 508, 578, 595, 615

<223> n = A,T,C or G

<400> 651

```

ctgagggtcc ccagggtttct aaagctctca ggacgagaaa gtaggtccca agataaggag 60
cctaaagggc ttttttcttt ctgtgtatcc cttcttggcc tccaacatgg gtacagtcac 120
aagagcatgt aacagagaag aaggactana cctaccattt tctggataaa gaattggaaa 180
gaggatccac aggtaaccaa aaagtaccag ggaaatggca gagaaggaaa acctcaggag 240
accaacctca taagtgggat ttattagngc ctgggctcaa atccaaattg tacatgaata 300
tgtctgggtc tagatagggt accgaagact ttgaaagtga attttggtat atcattgccc 360
agattccaga ctggnatttg tgtgacacaa catacaggat atatctgaat agtgctcaga 420
agagtttgaa aatgcaaagt atattaaaat aaagatgaaa aagagaaagc tggtcagaac 480
ttgtggacat aacccttctg gatctgtngc ctgattaaaa aatagttgat attctcgaat 540
gaattaaaac aagatttaga gactgagcat ggtagctnat tcttgtaatc caacnctttg 600
ggagggcaag gcaanagaat tgcttgccgc caggagtttt gagaccagct tggg      654

```

<210> 652
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 193
 <223> n = A,T,C or G

<400> 652
 ngctctgttgc actgaggtga ctaaggatac attttgagga agtagctcca agaacatttc 60
 cattttcact gtgccttcac atacatctaa tggaaatgaa cagcaccctt catccatcca 120
 cggaagcgat taagaaaagg gtgggatgga aaaattaacc caacaatatt agatcaatac 180
 gtagtatatta agngtccata atgtgccagg ctgaagatgc acgggaaaaac cacactagcc 240
 ggtctgtcaa gggcttgaga ataccataaa caagaaaaca gacgaacca ttt 293

<210> 653
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 653
 ngtcaccac tgcagcccta catacagttg aaaaaaaatt ccattctgtt aacatttgtt 60
 ttataagttt tcacgcaata cacaaaaaac ccctctgcac ttcttgtaaa gaacaaaaaa 120
 gatacacaa agttaagcgt aaagatcaca ggcaatagca ttcaaactg gatgtgggta 180
 gagaaaggag tacctggcat gagtacctgc ttagtttgac tgaatccttg atttttaatt 240
 tggcttttca tgggccgctc acaacaccaa cgctgtgtga ggtatggtag tcag 294

<210> 654
 <211> 250
 <212> DNA
 <213> Homo sapiens

<400> 654
 ctgtccttga acaagtatca atgtgtttat gaaaggaaga tctaaatcag acaggagtgtg 60
 gtctacatag tagtaatcca ttgttggaat ggaacccttg ctatagtagt gacaaagtga 120
 aaggaaattht aggaggcata ggccatttca ggcagcataa gtaatctcct gtocctttggc 180
 agaagctcct ttagattggg atagattcca aataaagaat ctagaaatag gagaagattt 240
 aattatgagg 250

<210> 655
 <211> 494
 <212> DNA
 <213> Homo sapiens

<400> 655
 ccattataat tttataaacac cattaccctt taaattctac cgattataag cagcgtaaaa 60
 gtaactatat aaagcaaaca tcgcaaagga actctgcagg agctcttaatt tcctttatgt 120

```

agctatcata aaattcactt tcttgaagac atttactctc attcacttcc aaactccaaa 180
cctttttctg gtagcaccac ttttgttttt aatagaaaaga tgagttcata tctgtacatc 240
tctccaaagc tctaaggaat gagaaaagga tcctagtata ttgaaattac tgatgtttta 300
tacctctgcc ttttacttaa aagccattta atatttttta agtcaaaact tgacatacag 360
gtattttataa ggaatctcca tgactctgaa ggaatgaaat tgatgtagggt agctttggct 420
atgtaaagac atagtagagg acaattactt aaagaagagt tttcttttga ggattttag 480
atttgactaa gcag 494

```

```

<210> 656
<211> 477
<212> DNA
<213> Homo sapiens

```

```

<400> 656
cgcgttactg tacatattgc tagcaggaga cactggaaa tactaaacaa atactggaat 60
tcacattaca gacagacgaa accaacatgg atgccacaca taacttcctt tgtagtttca 120
cagagggcct atttgtggtt gctcagggtg ggtcatacat tgcttgaga aatggcctga 180
tcatagctct atgaaacaat gaattcggaa tgaaatctta ccatgacacc tctctgtagg 240
aaagaaatgt tgcttcacgt gtgctaagtt gagataataa tatttcacat atttatatac 300
agagaatcac tctcaaattt aaccaagat aagcaatagg atttgggggt gacttgtaca 360
catttctaac aacacttttc ttttttctag aggtcactct caaactga tatatcacta 420
tagtttgagt gtagggattc agtaatcaaa ggttgttatt gcaaaagagc caggcag 477

```

```

<210> 657
<211> 576
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13
<223> n = A,T,C or G

```

```

<400> 657
cctctacctg tanatcacta tttttctaaa gacaatttgg tgttttgaag ataaatgtca 60
ttagtctatg ataatagcat cataggacaa ttagccattt tagacttgac catattttct 120
cttttttagca tatagccatc ttgatattta ggtgggagac tactccaatg gagcaacagt 180
ttcattttac atgattggat ttagaaattt acaaatttta aactcataag aattctaaat 240
aatttgaaaa tggaaacatt tgaccacag tctagcagca taaatacatt tataaaatac 300
ttcattgttg atcttaggtc attgatttaa aacagaattt ggtgactatg ggcagggtga 360
ggggggcagt gaggaaggtg taaaagagaa atctttatga attgtgttca gattgatttt 420
gtataaacat aatatattca tggttgtatc tcttatttat aataccaac taacatgaag 480
gtggtccaag ggaaggatca atattttaaa taacatattt gcttaaaata tcatacagt 540
gctgcttcac aaaaaatctt ataaactttt attacc 576

```

```

<210> 658
<211> 344
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14
<223> n = A,T,C or G

```

<400> 658
 cctgaaaaga aagntgctct tatggactct tgcattgttaa gactatgtct tcacatcatg 60
 gtgcaaatca catgtaccca atgactccgg ctttgacaca acaccttacc atcatcatgc 120
 catgatggct tccacaaagc attaaacctg gtaaccagag attactgggtg gctccagcgt 180
 tgtagatgt tcatgaaatg tgaccacctc tcaatcacct ttgagggcta aagagtagca 240
 catcaaaagg actccaaaat cccataccca actcttaaga gatttgtcct ggtacttcag 300
 aaagaatttt catgagtgtt ctttaattggc tggaaaagca ccag 344

<210> 659
 <211> 230
 <212> DNA
 <213> Homo sapiens

<400> 659
 ctgctttccc tgctaaacag ttccagagca aaagcagcaa aaagaaaata tgggagggat 60
 atgggcaacg tatactcgaa cgtacgcaga gaagagagta cggtttagctc taatatttct 120
 cattgaactt ggtggtatgt gccttccttg catataaggc catagtgtct ttttgggagc 180
 gctagaatat ccatccactt gacagtgacc acaaaatagg ctgcttccag 230

<210> 660
 <211> 80
 <212> DNA
 <213> Homo sapiens

<400> 660
 ctgggtccttg ttaaactcga tcaccacttt ggagagatcg actggaggct cctgggtgtt 60
 ctgaggggcc tgggggacag 80

<210> 661
 <211> 535
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 411, 413, 416, 422, 439, 470, 471, 479, 490, 492, 496, 501, 511
 <223> n = A,T,C or G

<400> 661
 ctgaaccata tctgattaac tcttttgtct ctgttatttg aacaaaaccg acgctatgcc 60
 tgcagccgcc agactgcaac caaaaacaca gtttggggtc agaagacatt aaaaatcaca 120
 ataaaatagg atgaatgttc taagtcacgc aactgaatca aggcacctt ttttttcaaa 180
 agcaaaaagt tgtttaacaa tattccagaa tagtagatac ttcaaaaacc agattacagt 240
 atatatcatt ttgctgcaca ttttagtcta ttttctgtat acatagtcac acattcttta 300
 ccctctccca acttatacat gctttatccc cccagtcatg tgctatgtag gtataaaaaa 360
 ataaagtgtg atctaaacaa gtgattttaa aaaaaaaact aacgaatgcc ncnatnataa 420
 cnetgaactt gtttcctnt tgaaggacat tggaaatgtt accgaggttn ntttacctng 480
 gccgcaaccn cnetangggc naattccagc nactggggg cgttactag gggat 535

<210> 662
 <211> 257
 <212> DNA

<213> Homo sapiens

<400> 662

```
cctgactaaa gcacatatca cactccctac acttccatgt tttctctccc atgtggaccc 60
tctgatgcat atcaagattc aagcgccctgt tgtagccctt cccacagtcc tcacatttgt 120
atggcttttc tacactgtga actttttctt gcactttaga gaatgaattc tgtacaatgt 180
tcttcccatg ctgctcacat ttgagagggtg tttctctgct gtggcgtctc tgatgggtca 240
gacgagttga ggaccag                                     257
```

<210> 663

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 36

<223> n = A,T,C or G

<400> 663

```
ccaattatag gtatttttatt ttttaaagat tagagngttc ttgaagctct ttctatttct 60
ttgtcaatga actaaacatt ggcaaataatg taggggtttcc cacataagaa cattattaac 120
atcaaaatag aaagctgggtg gtagaaataa tgattgggaa cacagagtct ctactcagcg 180
ttctacttct gccataccat aactttgtga tctcacgaaa tatctctcca tgttctcatc 240
cctatgtata gttctgtcat ttttcaataa gagctttttg ctttaattatg aagtactagt 300
tactataacc attattttga gcttcatgta aatcaagaac acatggactc cacttgcaaa 360
acattgaaaa tgtagtttagg gattgggggc aaaaagcaac attttaaaat gtgtaaagac 420
aatgagtaag caacaaagtg tccaattttt taggcgaaaag ttgcatatgt caggaaaagg 480
caggattaag taatagagaa tttgaatgat aactgg                                     516
```

<210> 664

<211> 212

<212> DNA

<213> Homo sapiens

<400> 664

```
gtccgaggag gttagtgtgt gcaataaaaa tgattaagga tactagtata agagatcagg 60
ttcgtccttt agtggtgtgt atggctatca tttgttttga ggtagtttg attagtcatt 120
gttgggtggt aattagtcgg ttgttgatga gatatttgga ggtggggatc aatagagggg 180
gaaatagaat gatcagtact gcggcgggta gg                                     212
```

<210> 665

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 11, 18, 24, 270, 271, 275, 277, 280, 281, 287, 291, 295,
298, 319, 325, 335, 337, 341, 344, 356, 360, 371, 375, 376,
388, 390, 401, 407

<223> n = A,T,C or G

<400> 665


```

atccaggggt ncccggtngc tgcngggaaa cctccagcct tgtttcttcaa accactcagc 60
tcatgtgttt tgcgctgact agtactgaat aatacaacca ctcttatttta atgttagtat 120
tatttatattg acaactcagt gtctaacagc ttgatatgca ggtccttgca tcctacattt 180
cttttaggaag ttacccattt gtaactttaa aaacaggaaa aatatcagtt ggcaaatgca 240
atctttttttt tttttaagct aaaggggggn naacngnaan naaaatnttt ntgangtnng 300
gtctataagc acccttgang ggatntgtta aaagnncat naanggggga ttctcntttt 360
gcaaaaaaat ntaannatca atttatanan ctttattttt naactttnt 408

```

<210> 666

<211> 635

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 7, 503, 540, 564, 577, 581, 616, 635

<223> n = A,T,C or G

<400> 666

```

ctgaagnaca agggtcaggc aaaaataaga tcacaatcac caatgaccag aatcgctga 60
cacctgaaga aatcgaaagg atggttaatg atgctgagaa gtttgctgag gaagacaaaa 120
agctcaagga gcgcattgat actagaaatg agttggaaaag ctatgcctat tctctaaaaga 180
atcagattgg agataaagaa aagctgggag gtaaaccttc ctotgaagat aaggagacca 240
tggaaaaagc tgtagaagaa aagattgaat ggctggaaaag ccaccaagat gctgacattg 300
aagacttcaa agctaagaag aaggaactgg aagaaattgt tcaaccaatt atcagcaaac 360
tctatggaag tgcaggccct cccccaactg gtgaagagga tacagcagaa aaagatgagt 420
tgtagacact gatctgctag tgctgtaata ttgtaaatac tggactcagg aacttttggt 480
aggaaaaaat tgaaagaact tanctctcga atgtcattgg aatcttcacc tcacagtggg 540
gttgaaactg ctatagccta agcnggctgt ttactgnttt ncattagcag gtgctcacca 600
tgtctttggg gtggnggggg ggagaaagaa agaan 635

```

<210> 667

<211> 388

<212> DNA

<213> Homo sapiens

<400> 667

```

gaaggtgata taaaatgact gtcatcattt ggagtgtgca gtacagttac ttcattgtcc 60
tcaggtttag aacaatttcc cctgtaagtt ctcacacaga taggcagaaa tcataactaa 120
ttttggttta tcaactatggc agccgttgaa gaatttaaga gaacctgcca gtaagatttg 180
gaataagatt ctatattatt gcacccacag aaaagaatgt actgatatac tataaactct 240
aggagaaaac ttaattgaaa tagtgttatt aagtgttgaa agtaccataa aaatataagg 300
gaaaataagc tttcctagaa tttttcagtg ttctagtttt taaacagtga tgttttttat 360
taacctattt catccattca aagacagg 388

```

<210> 668

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 417, 470, 484

<223> n = A,T,C or G

<400> 668
 tgatcttaac aaaattcgta gcagtggaaac cttgaaatgc atgtggctag atttatgcta 60
 aaatgattct cagtttagcat tttagtaaca cttcaaaggt ttttttttgt ttgttttcta 120
 gacttaataa aagcttagga ttaattagaa gaagcaatct agttaaatct cccatttgta 180
 ttttattttc ttgaataactt ttttcatagt tattcgttta aaaagattta aaaatcattg 240
 cactttggtc agaaaaataa taaatatatc ttatgaatgt ttgattccct tccttgctat 300
 ttttattcag tagattttttg tttggcatca tgttgaagca ccgaaagata aatgattttt 360
 aaaaggctat agagtccaaa ggaatgttct tttacaccaa ttcttccttt aaaaatntct 420
 gaggaatttg ttttcgcctt actttttttt cttctgtcac aatgctaagn ggtatccgag 480
 gttnttaata tgagattt 498

<210> 669
 <211> 622
 <212> DNA
 <213> Homo sapiens

<400> 669
 ccttagccaa agaatgcagt ggagccttcc cccttcaact gcattgtgaa tgaataccaa 60
 ttaacagcat aaaaattaat agtcccatac cagatctgga aggggtttct ggggctgtct 120
 gatgtcccta tcctgtttgta gtgaacacaa tagcagaaaa ttctttcttg gtccatctgc 180
 tataaagtct tggtaaaaca gcattactat gaagaggatg aactcaccta ccttcagatg 240
 gaggaaaagt gaaaaggact taggcttttag tcctccatga cttttcttaa gcactaccta 300
 cctgtaataa gctgagtgc aaaggatgcc gaagaaaatc tgcacccaga agctgttaga 360
 aagcactgca gagaacaggg tatgaagaaa ataaagagtt ctttaataaac ccttaagatt 420
 ctttgttcaa ggtaaccttg ccaaaagggc agagttagtg gcaaagagtt gcttttaatc 480
 tagctctaca ctgcatttga aaataaaaatt tgcccatttt gaatatattg tttataatta 540
 aatgtgcttt ttacactgca ggtcaatata aaaactgggt agtaaatttc cagcgagcat 600
 ttatgttcat ttgctcacag ca 622

<210> 670
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 670
 ttgggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60
 cccttgccgc ccgggcaggt gatggatgag gagcaaaaac tttatacgga tgatgaagat 120
 gatatctaca aggctaataa cattgcctat gaagatgttg tcgggggaga agactggaac 180
 ccagtagagg agaaaataga gagtcaaacc caggaagagg tgagagacag caaagagaat 240
 atagaaaaaa atgaacaaat caacgatgag atgaaacgct cagggcagct tggcatccag 300
 gaagaagatc ttcggaaaga gagtaaagac caactctcag atgatgtctc caaagtaatt 360
 gcctatttga aaaggtttagt aaatgctgca ggaagtggga ggttacagaa tgggcaaaat 420
 ggggaaaagg ccaccaggct ttttgagaaa cctcttgatt ctcagtctat ttatcag 477

<210> 671
 <211> 127
 <212> DNA
 <213> Homo sapiens

<400> 671
 gtgtgtgtgt ctacttgggc gtgtttaacg tgtgcgtttg tgtctgctg tgcatgtgtc 60
 tgtgtgtgct cgtgtatttc agtttgggtt gccggatccc atatgattgc gtgcctgtgt 120
 acctgag 127

<210> 672
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 672
 ggggtctgcac agctatgtta acagcatcct tataaccagga gtaggaggaa agacacgact 60
 ggaaaagcaa ttcaagctgg tcacacagtg taatgcaaaa tatgtggaat gtttcagtgc 120
 tcagaaagag tgtaacaaag aaaagaacag aaactcttca gttgtgccat ctgagcgtgc 180
 tcgagtgggt cttgcaccat tgcctggaat gaaaggaaca gattacatta atgcttctta 240
 tatcatgggc tattatagga gcaatgaatt tattataact cagcatcctc tgccacatac 300
 tacgaaagat ttctggcgaa tgatttggga tcataacgca cagatcattg tcatgtgtgc 360
 agacaaccag agcttggcag aagatgagtt tgtgtactgg 400

<210> 673
 <211> 600
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 528, 590, 600
 <223> n = A,T,C or G

<400> 673
 ctggcgttgc tcattagtga atgtatgaca gcaggatgtg aggggatgcc caggagtcag 60
 tgtagcatt gtcactctgag atcactgcta ttaatatcat ccattaattt attagtgagc 120
 ttcactatat gcagactggg agataaggag aaaatctgtc acattctctc tagctaatac 180
 gatcagctac caattaatga gattctgaat gaaatatcaa tatgtgtttt tctaatttgg 240
 acctaggaca gagctgttgc ttgtcataga gaaaaacaat aatgcttaaa catagcacat 300
 tataattaaa gcaggtttct cacatacttt tcattttatc ctttggataa ttttgtgagg 360
 aacgcaggac accaacttcc ctttcataga tacaatccc atgctattga tgaaagtgtt 420
 tttgaatgaa gccatacaac aaataactga tcaaagtggc attacaccaa aatttcttag 480
 taggactcct gcatagaatg tttagataga cgtgaaaagt ttgttcanga ggaccagcaa 540
 gagagaaact gggttctttg ggagggtttc ggtgctacat ttataccctn catcagagtn 600

<210> 674
 <211> 140
 <212> DNA
 <213> Homo sapiens

<400> 674
 ggtggtttgg gtaaatgagt gaggcaggag tccgaggagg ttagttgttg caataaaaaat 60
 gattaaggat actagtataa gagatcaggt tcgtccttta gtgttgtgta tggctatcat 120
 ttgttttgag gttagtttga 140

<210> 675
 <211> 245
 <212> DNA
 <213> Homo sapiens

<400> 675

```

gttgggtggt tgggtgtaa at gagtgaggca ggagtccgag gaggttagtt gtggcaataa 60
aaatgattaa ggatactagt ataagagatc aggttcgtcc tttagtgttg tgtatggcta 120
tcatttgttt tgaggttagt ttgattagtc attgttgggt ggtaattagt cggttgttga 180
tgagatattt ggaggtgggg atcaatagag ggggaaatag aatgatcagt actgcggcgg 240
gtagg                                           245

```

```

<210> 676
<211> 621
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13, 21
<223> n = A,T,C or G

```

```

<400> 676
ctgtccccag ggnaaatagt ngaattcaac taagatctgt taataagatg tcagaataac 60
taataatttt attaggaaaa aatcatgttt taaatttcaa aatgacactt atttgtcaag 120
taatatgatac ttggaaaaatt tttaaagaaaa ataatcctac ttataaacta cttttttata 180
attgtttttca gaaaaaaagt ttacagtctt aaggaaaata ttcaggtcta tcatatgggt 240
tgacagattt tttaaaagtt attttttggt aggtcttctt ttagaaaaaa attaacttca 300
agggtttttt gtaccactat aatctctaat acttactcag aattactgtg tatttactta 360
atttcttatt atgtgcctta ttatgtgctt aagatacaat aggttagagt ttaactctaa 420
tatcttgaaa gctatattgt gggcttggt agcattttgt tttttctttc tctgttttgg 480
taaggattta aaattttttt cattgcaatt ttaagtgggt ttcaataagt aatagttttt 540
atcaaatttt tgggtgcttg tgacagagacg gcgtggggaa ggggtgaatg ttttggaat 600
aattcagtcg acacctgggg g                                           621

```

```

<210> 677
<211> 210
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 10
<223> n = A,T,C or G

```

```

<400> 677
tttacataa atattatcag catttaccat ctactttcta ggaatactag tatatcgctc 60
acacctcata tcctccctac tatgcctaga aggaataata ctatcactgt tcattatagc 120
tactctcata accctcaaca cccactccct cttagccaat attgtgccta ttgccatact 180
agtctttgcc gcctgcgaag cagcggtagg                                           210

```

```

<210> 678
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 86, 119, 120, 139, 140, 148, 162, 167, 175, 184, 222, 227,
263, 270, 282, 327, 379

```

<223> n = A,T,C or G

<400> 678

```
gtaggagtca gtagttagg gttaacgagg gtggttaagga tggggggaat tagggaagtc 60
agggtaggg tggttatagt agtgtncatg gttatttagga aaatgagtag atatttgann 120
aactgattaa tgtttggggn tgagtttnta taccacagcc anaattntat gatgnaccat 180
gtancgaaca atgctacagg gatgaatatt atggagaagt antctanttt gaagcttagg 240
gagagctggg ttgtttgggt tgnngctcan tgtcagttcc anataataac ttcttgggtct 300
aggcacatga atattgttgt ggggaanaga ctgataataa aggtggatgc gacaatggat 360
tttacataat ggggttatna gtt 383
```

<210> 679

<211> 371

<212> DNA

<213> Homo sapiens

<400> 679

```
aaaatgaaaa tattgacaag agtttcagat agaaaatgaa aaacaagcta agacaagtat 60
tggaagaagta tagaagatag aaaaatataa agccaaaaat tggataaaat agcactgaaa 120
aaatgaggaa attattggta accaattttat tttaaaagcc catcaattta atttctggtg 180
gtgcagaagt tagaaggtaa agcttgagaa gatgaggggtg tttacgtaga ccagaaccaa 240
tttagaagaa tacttgaagc tagaagggga agttggttaa aaatcacatc aaaaagctac 300
taaaaggact ggtgtaattt aaaaaaaact aaggcagaag gcttttggaa gagttagaag 360
aatttgggaag g 371
```

<210> 680

<211> 176

<212> DNA

<213> Homo sapiens

<400> 680

```
cctaggattg tgggggcaat gaatgaagcg aacagatttt cgttcatttt ggttctcagg 60
gtttgttata attttttatt tttatgggct ttggtgaggg aggtaagtgg tagtttgtgt 120
ttaatatatt tagttgggtg atgaggaata gtgtaaggag tatgggggta attatg 176
```

<210> 681

<211> 152

<212> DNA

<213> Homo sapiens

<400> 681

```
ctggagatgg atatgagact agtcaagatg tgaatgctaa ttggagagaa atataatttt 60
aggaagatgc acattgatgt ggggttttga tgtgtctgat tttgactact caagctctgt 120
ttacagaaga aaattgaatg gcgaggggtg gg 152
```

<210> 682

<211> 141

<212> DNA

<213> Homo sapiens

<400> 682

```
ccagtgcctg cttgccgtgg tttagtgatt ggggtgttaga aataaaaaact caggtctatt 60
tcttaccagt cagtaacaat ttttagagaa tgtacttggt atataatata tggacttcag 120
gaactttggt ggggtggggg g 141
```

<210> 683
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 683
 ccagcaatgg tacagagtga ggggtgttctg ctaatgactt cagagaagta ttttaagaaaa 60
 acatagaaaa acgtgtgctg agtttgccag aaatagatgg cttgagcaaa gagacagtgt 120
 tgagctcatg gatagccaaa tatgatgcca tttacagagg tgaagaggac ttgtgcaaac 180
 agccaaatag aatggcccta agtgcagtgt ctgaacttat tctgagcaag gaacaactct 240
 atgaaatgtt tcagcagatt ctgggtatca aaaaactaga acaccagctc ctttataatg 300
 catgtcag 308

<210> 684
 <211> 277
 <212> DNA
 <213> Homo sapiens

<400> 684
 tgggtattagg attaggatgt gtgaagtata gtacggatga gaaggttggg gaacagctaa 60
 ataggttgtt gttgatttgg ttaaaaaata gtagggggat gatgctaata attaggctgt 120
 ggggtggttgt gttgattcaa attatgtgtt ttttgagag tcatgtcagt ggtagtaata 180
 taattgttgg gacgattagt tttagcattg gagtaggttt aggttatgta cgtagtctag 240
 gccatatgtg ttggagattg agactagtag ggctagg 277

<210> 685
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10
 <223> n = A,T,C or G

<400> 685
 ctgtggcgtn ccctacttct cccaaacctc gcaactccct cccaggacag tcagtgccaa 60
 agaaacaggt cgctgaaaac taaaatgtcc acatccctaa ctggcaaccc acatcaaccc 120
 caaaaggttg aagaatcatc taagatattt cagatgctct atgaagaaat tcactttaac 180
 acttataact gtaagacttt gcatacatta caacagtgc ttagtgatac aagttgtaaa 240
 atacgtttcc attccttttg attttgcata tgatggtttt gcatcagtc ctgcaggtag 300
 attgagcaag ctttttgtgt ttgttttttt aaacatgcat tcaactagat atgattcaga 360
 atagattaat actccctttt tatcactaca gtttagctaaa aaattgccag gcagtccaca 420
 aaacagaatt tgctttaaga ccaaccacag gagtcag 457

<210> 686
 <211> 234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1

<223> n = A,T,C or G

<400> 686

```
ntggatttat aaaatagttg caatgacaaa agaagtatgt tttgacagta aaaaaaagac 60
attatggaca aaatatgcaa aatgtgcaaa gaaaaaataa atttgcatta gaaaggtggg 120
catttgatct ctgagccctg tgccatgtaa cattgccatg ttctttcact gttgtttgaa 180
tgttgtaccc cagcccttga ctctggactt aaggcaagct atgactggct ttgg 234
```

<210> 687

<211> 315

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 2, 190

<223> n = A,T,C or G

<400> 687

```
nngtctgtga aaaactcttt ggatgattct gccaaaaagg tacttctgga aaaatacaaa 60
tatgtggaga atttttgtct aattgatggc cgccctcacca tctgtacaat ctctgtttc 120
tttgccatag tggctttgat ttgggattat atgcacccct ttccagagtc caaaccggt 180
ttggctttgn gtgtcatatc ctattttgtg atgatgggga ttctgaccat ttataacctca 240
tataaggaga agagcatctt tctcgtggcc cacaggaaag atcctacagg aatggatcct 300
gatgatattt ggcag 315
```

<210> 688

<211> 522

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 31, 32, 387

<223> n = A,T,C or G

<400> 688

```
ctgaattaga ggaggagaaa agaagccatt nnggagtact ttaattgttt agatgtgaga 60
ggctgaatgt ttgggttaag atgttagttg tcagaatcat gagaaaagg ttttaagcaag 120
gggcatttct aattctaaaa ataacaacta ctgttattta ttgagcacta tctttttgtt 180
gggtactgtc taaagtactt gatttatttt ttaaaacctt acaaaaaact tacaaggtag 240
gtactgaaag attcagtaat ttgttcaaag tcacacagca aataagcaac agactctgga 300
tttgaaccag gcaatcctag agcctgtact gttagtaatt atacttttagc acctgtcaag 360
aattcctgtt gagtgtcaag aagcaancac caagttagga tttaaagcaa acatgattga 420
agaatactgt ggtgtggttg acagtagtgc ctaagtctgt tttcagagtg aaaaatgaca 480
aattagattt taagtatggc ttggagataa taccaggaca gt 522
```

<210> 689

<211> 158

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 11, 13, 15, 34, 51

<223> n = A,T,C or G

<400> 689

```
tctcaactta nttnataacc cacacccacc caanaacagg gtttgtagg nattgtttgc 60
attaataaat taaagctcca tagggctcttc tcgtcttgct gtgtcatgcc cgctcttca 120
cgggcaggtc aatttcactg gttaaaagta agagacag 158
```

<210> 690

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 33, 261

<223> n = A,T,C or G

<400> 690

```
tagaactcgt atttttaaac ttctattctc tanccttttc cactacatta tgacacaaga 60
ccctgcagaa agtcgtctgg aaaatatcag accatctctt acttgctcca tccaatctta 120
catcgaatta tatgcaccct taaaaagtta tttggagttt taaaaaactc tattagccca 180
aattacctga aataaactcc tggcttggtc ccctaattgt tataaaaaat tgattgaaaa 240
tattcatttt aaaaatgaag ntcttgaatt tattttaaatt actgtcttgc agtgagttgg 300
```

<210> 691

<211> 305

<212> DNA

<213> Homo sapiens

<400> 691

```
ctgttcagaa agctcattgg acctggtttt gaaaataaaa caaagttaaa accctgggag 60
gagttattgt gcagtgtgga gtactcaggc tttcttataa agaaaaaaaa agttatctgg 120
taccaaagtg tgcaacctac agaccctcag gtactgcctt gtgacttctc tgtatgacat 180
cacaaggctg ccaagtgcct gtttttctag aactaggagt tggtagggtt tggctagtgc 240
tgaaaccatg cataggattg gtttactaaa ttaaaacctt attacgtacg tcctccaaaa 300
gacag 305
```

<210> 692

<211> 582

<212> DNA

<213> Homo sapiens

<400> 692

```
caggaaatgg ataaccattt taactgtatt ttttgcagcc cgtaccttct tgggaataca 60
attgtctaag tttttatttt tggctctggc gttgtggtgt gcaaaaactcc gtacattgct 120
attttgccac actgcaacac cttacagatg tggaagatgt gaaatttgct atcaattatg 180
actaccctaa ctctcagag gatttatatt atcgaattgg aagaactgct cgcagtacca 240
aaacaggcac agcatacact ttctttacac ctaataacat aaagcagggtg agcgacctta 300
tctctgtgct tcgtgaagct aatcaagcaa ttaatcccaa gttgcttcag ttggtogaag 360
acagagggtg aggttaaggat gactgatagg aaatgttggg agttacgagt cacatcgttg 420
tctacaaatc catttaaatg gtattggagg gtgagtaaaa ccttgaatgt gaaaacttaa 480
gctgaaaaat tgtaaaaaca tttcacgcct accatgaata gatctgtttc tttctgtcca 540
```


caatgatttg tgtcatagac ataattgatac aatttgcaat tg

582

<210> 693

<211> 275

<212> DNA

<213> Homo sapiens

<400> 693

```
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaaagggtg 240
ataagctctt ctatgatagg ggaagtagcg tcttgg 275
```

<210> 694

<211> 397

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1

<223> n = A,T,C or G

<400> 694

```
nggtctgcat ttttattgag atctgcagat gaactggaaa atctcatttt acaacagaaac 60
tgagacagac gaccaccata ttcactgagg tctaaatttg cagtttccac taatgacatt 120
ttgatttccc aacagagata cttctggtct tactgcacag tcttttaaga gaaataacttc 180
cattatgccca cattgtcctt gatccgtaag tgatgtgtta aggtgcttca aaggaactct 240
gacctctgaa gtacttgagc tactttagta tgtccagcct attgcttttt gtttttagtgt 300
gtcaccataa atatcagggg cataaaaaggc tatctattct taattcaagg ataaaacaga 360
agaagcttgt ggtataaaac aatagttcaa gatccag 397
```

<210> 695

<211> 609

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 29, 96, 165, 236, 248, 312, 314, 334, 352, 359, 413, 414,
472, 525, 547, 583, 609

<223> n = A,T,C or G

<400> 695

```
ctgagcttcc atttgtcagc tagcactgng gtagtcaacc atgcgaatga ggctattttg 60
gacctcatga ttgtccagtg cctgggctga taccngggga aacgaaattt tgtggctgcc 120
cacaaaatca tggaaaataa tgatttttta gaaaacctcc actgntttgt tgtgcagcaa 180
taaataactg aaacaccaat ccaaaaaact tataaagcta taacaattaa aacagnataa 240
taatagtncc gggatacaaa aatgggtcaaa ttgaagagga tacaaagcct caaagcagtc 300
ctcactcata ananccttgt tgtatcacta aaanggcatt aaaattgaga anaaggaana 360
actagtggat taattaataa atgagaagta tccataagga aaaattaaaa ttnnattctt 420
gcttcacatt atgaaaaaat acaaacaca gattgattaa agacttaaat gngatcaaca 480
aaatgttaaa actgtgataa gaacatttaa gaaaatagtt ctatnaccct gggataaaac 540
```

attttcntcc aaggcattaa agtggttaa atncatttat tcattagaat 600
ttaaattcn 609

<210> 696
<211> 300
<212> DNA
<213> Homo sapiens

<400> 696
ctgcaaaata agcgtgctaa attaaattgt cttaagggtt ttccacttca ttttgtgact 60
ttgtgtggtt cgaattttctc agtatttttaa ccagtgtgtt gatgttaaag tcaaaggctg 120
cagtatgtct atattcttgc tgtactcatt ggtagtttca gtatatgtaa tgtgagttta 180
aatagtgaat ttgtatctca tattaacatt tcaaatgctc atattgaaaa tggaaaatag 240
taaacacggg aattgatttt attctgggtt totataatac ttcattttta atgtaaatgg 300

<210> 697
<211> 391
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 2, 10, 16, 23, 315, 350
<223> n = A,T,C or G

<400> 697
nngtcatgtn tgatgnatct gancagggtt ctccacaggt agctctagga gggctggcaa 60
cttagagggt gggagcagag aattctctta tccaacatca acatcttggg cagatttgaa 120
ctcttcaatc tcttgcactc aaagcttgtt aagatagtta agcgtgcata agttaacttc 180
caatttcatc actctgctta gaatttgggg gaaaaatttag aaatataatt gacaggatta 240
ttggaaaattt gttataatga atgaaacatt ttgtcatata agattcatat ttacttctta 300
tacatttgat aaagnaaggc atgggtgtgg ttaatctggt ttatttttgn tccacaagtt 360
aaataaatca taaaacttga acaaaaaaaa a 391

<210> 698
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 508, 523
<223> n = A,T,C or G

<400> 698
ctgagcatatc agcaataaaa ataacataat ttttatgtgt acaatatatta tggaatacgt 60
tactggaaca gataaataat ttagttaata acatgacaaa gaacagaaat tgtatacact 120
atacagcata gtaatagaat aatgaatgat taaagttatt aatattaggt agaaaatgaa 180
gggtatcttt gagagcagaa ctcaagggaag caagcaattt gccttatgag gaaagagtta 240
cctgtggata aaggagaaaac tgaaaaattt acaagtcaag actttttgag caaagacaaa 300
aatatgacta tgagtcacca attcagtaca gtgaaaaaaa agttgaagag atatcttgga 360
agtaaaccat gttgtggaag agcagggttt tgataatcat gggattattc tgaatgaatt 420
ttaaattgca taggaatata tgagataatt tcaccagaga ataatatgat catgtttgca 480

tttcaaaggg gtgtatctgg tgcactgngt agaataaata ggntatgtga gcaagt 536

<210> 699
<211> 419
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1
<223> n = A,T,C or G

<400> 699
ngtccacctg agggcaggtg acaaggacct gacagagccc atgcagggct ttagatttgg 60
acacacaaga gttgataact tcctcatgaa ctcccttgct gatctaaact catattatgg 120
gttctgactg tttgagtaat catcttcaag gttaaacctc ttggcagtta cccttttcac 180
aaagtgcaca gtgggaatcg agaatcgata gggttaattt tggagcagtg gcttatacca 240
ttcacctctg tttttttgtg attatttcac agataatgag accttaataa caaataggcg 300
taaaaaaatt ttcacattga aatgatagaa acatttgatg taataaaaact tggttggctt 360
gatattttta ggaattgaaa cctagcaatc ttattggaga gacaagaatt ggtctccag 419

<210> 700
<211> 336
<212> DNA
<213> Homo sapiens

<400> 700
ccacttattg tccttaaaaa tccatactga tacatggaca gtaagtgtgt tttcagatgg 60
agtaccagca ccgaaaatgg gttgaggag gatgggttgt atgtatgttt ctgcccacta 120
attttgagca gccatattat gaattaaatc gtcacagcca agtaataacc caagaatggg 180
atgagtttca tgtgtaatag ctcaaagga ataagcatga atgctggagt ggaccattat 240
cctcaaatat tctatgtcac ttctcattta aagactcttg ttatgaacta ttagaaactt 300
taggcaaaat caaaagtatt tgcgggcaaaa taaagg 336

<210> 701
<211> 418
<212> DNA
<213> Homo sapiens

<400> 701
ccatgtgatg atgttgacaa cccctgaaga gcctcagtc attgttccac gtttaagaac 60
taggaataacc aggactgatg caattctact gggtcactat cgcttgtcac aagacacaga 120
caatcagacc aaagtatttg ctgtaataac taagaaaaaa gaagaaaaac cacttgacta 180
taaatacaga tattttcgtc gtgtccctgt acaagaagca gatcagagtt ttcattgtggg 240
gctacagcta tgttccagtg gtcaccagag gttcaacaaa ctcatctgga tacatcatc 300
ttgtcacatt acttacaaat caactgggtga gactgcagtc agtgcttttg agattgacaa 360
gatgtacacc cccttgttct tcgccagagt aaggagctac acagctttct cagaaagg 418

<210> 702
<211> 261
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
 <222> 104, 178, 184, 240
 <223> n = A,T,C or G

<400> 702
 gggcctgttg tgggggtggg ggaagcaggg aggggaacag ctaaataggt tgctgttgat 60
 ttggttaaaa aatagtaggg ggatgatgct aataattagg ctgnggggtgg ttgtgttgat 120
 tcaaattatg tgtttttttg agagtcatgt cagtggtaga aatataattg ttgggacnat 180
 tagnttttagc attggagtag gtttaggtta tgtacgtagt ctaggccata tgtgttggan 240
 attgagacta gtagggctag g 261

<210> 703
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 40, 104, 178, 184, 220, 246
 <223> n = A,T,C or G

<400> 703
 gggcctgttg tgggggtggg ggaagcaggg aggggaacan ctaaataggt tgctgttgat 60
 ttggttaaaa aatagtaggg ggatgatgct aataattagg ctgnggggtgg ttgtgttgat 120
 tcaaattatg tgtttttttg agagtcatgt cagtggtagt aatataattg ttgggacnat 180
 tagnttttagc attggagtag gtttaggtta tgtacgtagn ctaggccata tgtgttggan 240
 attganacta gtagggctag g 261

<210> 704
 <211> 381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 4
 <223> n = A,T,C or G

<400> 704
 ngnttgaatt ctattaaaga tacaagaggg agctgggtacc atttcttctg aaactattac 60
 aaacaactga aaagggtggaa tttctcccta attcatttta ggaggccagc attatactga 120
 taccaaaaacc tggcagaggt acaataataa aaggaaactt caagtcagta tcaactgatga 180
 acaccaatgt gaaaatcctc aataaaatac tggcaaaactg aattcagcag cacatcaaaa 240
 agctaattcca ccacaatcaa gtcagcttca tcctgctgat gcaagtcttg ttcaacatat 300
 gcaaataaat aaatacaatt catcagataa acagagctaa agacaaaatt cacatgatatt 360
 tctcaataga tgcagaaaag g 381

<210> 705
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 705
 ctgaaccctc gtggagccat tcatacaggt ccctaattaa ggaacaagtg attatgctac 60

```

ctttgcacgg ttaggggtacc gcggccgtta aacatgtgtc actgggcagg cgggtgcctct 120
aatactggtg atgctagagg tgatgttttt ggtaaacagg cggggtaaga tttgccgagt 180
tccttttact tttttaacc tttccttatg agcatgcctg tgttgggttg acagtgaggg 240
taataatgac ttgttggtga ttgtagatat tgggctgtta attgtcagtt cagtgtttta 300
atctgacgca ggcttatgcg gaggagaatg ttttcatgtt acttatacta acattagttc 360
ttctataggg tgatagattg gtccaattgg gtgtgaggag ttcagttata tgtttgggat 420
tttttaggta gtgggtgttg agcttgaacg ctttcttaat tggtggtgc ttttagg 477

```

<210> 706

<211> 266

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 100, 115, 157

<223> n = A,T,C or G

<400> 706

```

ccatggctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggc aggagtccga 60
ggagggttagt tgtggcaata aaaatgatta aggatactan tataagagat caggntcgtc 120
ctttagtgtt gtgtatggct atcatttggt ttgaggntag tttgattagt cattgttggg 180
tggttaattag tcggttggtg atgagatatt tggaggtggg gatcaataga gggggaaata 240
gaatgatcag tactgcggcg gtagg 266

```

<210> 707

<211> 358

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 131

<223> n = A,T,C or G

<400> 707

```

ccatcagaga aatgcaaatac aaaaccacaa tgagatacca tctcacacca gttagaatgg 60
caatcattaa aaagtcagga aacaacaggt gctggagagg atgtggagaa ataggaacac 120
ttttacaccg ntgggtgggac tgtaaactag ttcaaccatt gtggaagtca gtgtggcgat 180
tctcaagga tctagaacta gaaataccat ttgaccagc cggccaatat tcaacattct 240
taaaggaaag aattttcaac ccagaatttc atatccagcc aaactaagct tcgttagtga 300
aggagaaata aaatacttta cagacaagca aatactgaga gattttgtca ccaccagg 358

```

<210> 708

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12, 479

<223> n = A,T,C or G

<400> 708

```

cctactatgg gngttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaaggga ttttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggttagt 180
ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttct ggggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgagg tactatatct attgcgccag gtttcaattt 420
ctatcgcta tactttattt gggtaaattg tttggctaag gttgtctggt agtaaggng 480
gagtgggtt g 491

```

<210> 709

<211> 460

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 197, 216, 231, 313, 389, 411

<223> n = A,T,C or G

<400> 709

```

nggtttttt tgtagagcaa ataatttatg caaaatatgt tacaaaatct gggatgctaa 60
atagttgaca caagtactgt gtttgacatt tagtttcatt tgaattagta atagaatttg 120
ctccttccaa catttacatc ttttttcttt ctgactttat atattttcaa taaaaatttg 180
ctccacagtt ttttaagntca ttcttcttga atccgntttt acatttgctg ngacaaacct 240
gcataaaaact agattttata gatataactt ctttggaaga gataaaaatt caaaagtgtg 300
acattgcttt canttattct ttcttctcatt gttttgattg gccctgtta gattgatgta 360
ttgccaatct acttttgatg gcatgaatnt aaaatgacaa cataaaaago ncttctagtg 420
caacagtaat tgaaacttgc agttttccat taaaaaaaa 460

```

<210> 710

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 275, 507

<223> n = A,T,C or G

<400> 710

```

ctgttacagt gacaagagat aaaaagatag acctgcagaa aaaacaaact caaagaaatg 60
tgttcagatg taatgtaatt ggagtgaata actgtgggaa aagtggagtt cttcaggctc 120
ttcttggaag aaacttaatg aggcagaaga aaattcgtga agatcataga tctactatg 180
cgattaacac tgtttatgta tatggacaag agaaatactt gttgttgcat gatattctag 240
aatcggaatt tctaactgaa gctgaaatca tttgngatgt tgtatgcctg gtatataatg 300
tcagcaatcc caaatccttt gaatactgtg ccaggatttt taagcaacac tttatggaca 360
gcagaatacc ttgcttaatc gtagctgcaa agtcagacct gcatgaagtt aaacaagaat 420
acagtatttc acctactgat ttctgcagga aacacaaaat gcctccacca caagccttca 480
cttgcaatac tgctgatgcc cccagtnagg atatctttgt taaattgaca acaatggacc 540
tg 542

```

<210> 711

<211> 394

```
<220>  
<221> misc_feature  
<222> 184, 299  
<223> n = A,T,C or G
```

```
<210> 712
<211> 552
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 11, 133, 329, 345, 421, 518
<223> n = A,T,C or G
```

```

<400> 712
gaggtctgta naatgccagg ctcaaatttg tctttataat ttaataccag aaatctttcc 60
cttgtgatgt ttctttcttt ctggattgcc tctatagcag gggatagcgg gggaggataa 120
ggcacatctt tgntgtactg agaaatttga ccacgcagga tgatgtggct gttctcattc 180
atctgcacag agaaaaataa tgataaaata tccctttcct atgtttactg attttatggc 240
tgccataatg gaagcctcct tgactattta atcctttctg tcaactaggt tcgatttttt 300
ttttaattta cctgttagag gtatttaana attttaacta gctanaaata attacattcc 360
aaaggaacac caaggcaaat aaatggttgg taatcagcaa aagaattaca ttagttgttg 420
ntgctactta ttagggggag aactgttttt ttttaaattt aaacaattta ataatctcaa 480
ctgcaaataa ttttagatgc agcaaaggac tatgtagncg ttaatacctc atgttgatat 540
tttcataata tt                                     552

```

```
<210> 713
<211> 518
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 133, 148, 188, 209, 246, 248, 263, 306, 316, 339, 371, 430,
469
<223> n = A,T,C or G
```

```
<400> 713
ccaaaaaactg gaagcagctc actaaacaaa cagtggcata cccatagaac tgcatacttc 60
tcagcagtat gaaagaatga gctacttata taagcatcat tgataaacct caaaaaaaaaa 120
atgccacatg aanaaaccca aagggganaa acataaaaac tttatatgtc agtcatataa 180
```

```

aattctanaa aatgcaaact aatccatcnt aaaggaaagt aaatcaacag ttgtctggag 240
gaccananag agcaggagga ganagattat taaaggggtt aaagtaaatt tgggagtgcc 300
cttcnntttt taaatnctat gaaaatgaaa gtaaaggcnc atgcatgttg taaactaata 360
gtaacaaaca naatgggttg gagtgggttg ttgtctgggg acatcattac aaaatgtaag 420
ccagtttatn taaattttga aaagaccgtg gactctgata tgactgatna atgttggaag 480
agataagtgt gctgcaaact ggggaattaa taaaacag 518

```

<210> 714

<211> 281

<212> DNA

<213> Homo sapiens

<400> 714

```

ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240
ataagctctt ctatgatagg ggaagtagcg tctttagtagac c 281

```

<210> 715

<211> 443

<212> DNA

<213> Homo sapiens

<400> 715

```

cttgaaatca gcaacacact taaaaatgag aaaatgaaaa tagaagagta tataaagaaa 60
gggaaagagg attatgaaga gagtcacag agagctgtgg ctgcagaggt atccgtactt 120
gaaaactgga aggagagtga agtgtataag ctacagatca tggagtcaca agcagaagcc 180
tttctgaaga agctggggct gattagccgt gatcctgcag catatcccga catggagtct 240
gataacggtt catgggaatt gtttctttct aatgttataa aagaaattga gaaagcaaag 300
tctcagtttg aagaacaaat taaggcaatt aaaaatgggt cccggctcag tgaactttct 360
aaagtgcaga tttctgagct ttcatttctt gcctgtaaca cggttcatcc cgagttactc 420
cctgagtctt caggccacga tgg 443

```

<210> 716

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6, 516, 532, 553, 602, 617, 620

<223> n = A,T,C or G

<400> 716

```

ccaaanaaaa tgaagtacag agtctgcata gtaagcttac agataccttg gtatcaaaaac 60
aacagttgga gcaaagacta atgcagttta tggaaatcaga gcagaaaagg gtgaacaaaag 120
aagagtctct acaaatgcag gttcaggata ttttgagca gaatgaggct ttgaaagctc 180
aaattcagca gttccattcc cagatagcag cccagacctc cgcttcagtt ctagcagaag 240
aattacataa agtgattgca gaaaaggata agcagataaa acagactgaa gattcttttag 300
caagtgaacg tgatcgttta acaagtaaag aagaggaact taaggatata cagaatatga 360
atttcttatt aaaagctgaa gtgcagaaat tacaggccct ggcaaatgag caggctgctg 420
ctgcacatga attggagaag atgcaacaaa gtgtttatgt taaagatgat aaaataagat 480
tgctggaaga gcaactacaa catgaaattht caaacnaaat ggaagaattht angattctaa 540

```


atgaccaaaa canagcatta aaatcagaag ttcagaagct gcagactcct gtttctgcac 600
 angcctaata aggatgntgn ggaacaaatg gaaaaattg 639

<210> 717
 <211> 473
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 2, 102, 148, 187, 290
 <223> n = A,T,C or G

<400> 717
 nntgaggcta ctgctgtttt attacaacat tacctcttgt tttataaaag tgtaccaaga 60
 tttaaattga taactttatt ttacttgaaa aaaaaaagtt tnttttatca ccagtgttac 120
 agttgtcttc tgtttctttt tgttttgntt tatttgnttt cttttttagc caaagagtga 180
 acagaanatt ttcttatttt ggtggctatt cattttactt ttaaaagtga ttggtggatt 240
 ttagactaat tatgggggaa ttgcccacca aaataaaaaa tatgtaaagn gtagtgatta 300
 cagagtgggt aaaaatgtggg ttagtactta tttattccat taattgatta ttgactgtt 360
 tataaagaaa gttgctttat ttctttaaac atcttcaaaa gatgatcctt tcttgtcaca 420
 ttatagccaa aagaagcaga gaacttcaact gtctgcattt gggttctggt tgg 473

<210> 718
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 718
 ggtaaatgct agtataatat ttaccatctc acttctagga atactagtat atcgctcaca 60
 cctcatatcc tccctactat gcctagaagg aataatacta tcaactgttca ttatagctac 120
 tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180
 ctttgccgcc tgcgaagcag cggtagg 207

<210> 719
 <211> 255
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 214
 <223> n = A,T,C or G

<400> 719
 cctatattac ggatcatttc tctactcaga aacctgaaac atcggcatta tcctcctgct 60
 tgcaactata gcaacagcct tcataggcta tgcctcccgc tgaggccaaa tatcattctg 120
 aggggccaca gtaattacaa acttactatc cgccatccca tacattggga cagacctagt 180
 tcaatgaatc tgaggaggct actcagtaga cagncccacc ctcacacgat tctttacctt 240
 tcacttcacg ttgcc 255

<210> 720
 <211> 455
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 154, 346, 349, 366, 444

<223> n = A,T,C or G

<400> 720

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ccaatgtcga aacctacaag atttccttaa aatctctaata agaggcatta cttgctttca 60
attgacaaat gatgccctct gactagtaga tttctatgat ctttttttgt cattttatga 120
atatcattga ttttataatt ggtgctattt gaanaaaaaa atgtacattt attcatagat 180
agataagtat caggtctgac ccagtgga aacaaagcca aacaaaactg aaccacaaaa 240
aaaaaggctg gtgttcacca aaacaaaact tgttcattta gataatttga aaaagctcca 300
tagaaaaggc gtgcagtact aagggaacaa tccatgtgat taatgnttnc attatgttca 360
tgtaanaagc cccttatttt tagccataat tttgcatact gaaaatccaa taatcagaaa 420
agtaattttg ccacattatt tatnaaaaaat gttcc 455
```

<210> 721

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 134, 390

<223> n = A,T,C or G

<400> 721

```
ccagtgttg ctgccgtggt ttagtgattg ggtgttagaa ataaaaactc aggtctattt 60
cttaccagtc agtaacaatt ttagagaaat gtacttggtg tataatatat ggacttcagg 120
aacttttattg gggngggggg ttaattttgc cttaccctgt tcaactttcag atgattaggc 180
ttttgcactt tagaatgaga aacttgtgac gttagtgtgt tcttactagc ttttaattgt 240
atgtagcaat gaattgtgaa tcttagtgca gtgggttttt ttaaaaaact caaaaagctg 300
ggaattaagt ggtttcagta ataatgctat accgaggtgc ttgcattgta tttcataatt 360
ttgttacaaa ccaaaattat ttttaatgan aacggtcttg ggttcagagg tgtgatgcca 420
gaatgtattt tctgtactgtt aggcccttgg aacagatacc ggtgctttct tgaaagatga 480
aagaaatgca atgggtgctc ttcatgcaag gttgcaaacc taccaagaat 530
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<210> 722

<211> 242

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 29, 35, 55, 192

<223> n = A,T,C or G

<400> 722

```
ccaaggggtca tgatggcagg agtaatcana ggtgntcttg tgttgtgata agggngggaga 60
ggttaaaggga gccacttatt agtaatgttg atagtagaat gatggctagg gtgacttcat 120
atgagattgt ttgggctact gctcgcagtg cgccgatcag ggcgtagttt gagtttgatg 180
ctcatcctga tnagaggatt gagtaaaccg ctaggctaga ggtggctaga ataaatagga 240
gg 242
```

<210> 723
 <211> 472
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 191, 266, 460
 <223> n = A,T,C or G

<400> 723
 cctactatgg gtgttaaatt ttttactctc tctacaagggt tttttcctag tgtccaaaga 60
 gccgttcctc ttgggactaa cagttaaatt tacaaggga tttagagggt tctgtgggca 120
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
 ttgtcgccctc nacctataaa tcttcccaact attttgctac atagacgggt gtgctctttt 240
 agctgttctt aggtagctcg tctggnttcg ggggtcttag ctttggctct ccttgcaaag 300
 ttatttctag ttaattcatt atgcagaagg tatagggggt agtccttgct atattatgct 360
 tggttataat ttttcatctt tcccttgccg tactatatct attgcgccag gtttcaattt 420
 ctatcgcccta tactttattt gggtaaatgg tttggctaan gttgtctggt ag 472

<210> 724
 <211> 292
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 26, 73, 177, 215, 256, 274, 276
 <223> n = A,T,C or G

<400> 724
 nccaccactg cagccctaca tacagntgaa aaaaaattcc attctgttaa catttgtttt 60
 ataagttttc acncaataca caaaaaaccc ctctgcactt cttgtaaaga acaaaaaaga 120
 tacacaacag ttaagcgtaa agatcacagg caatagcatt caaacatgga tgtgggnaga 180
 gaaaggagta cctggcatga gtacctgctt agttnngactg aatccttgat ttttaatttg 240
 gcttttcatg ggccgntcac aacaccaacg ctgngngagg tatggtagtc ag 292

<210> 725
 <211> 122
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35, 61, 86, 88, 91, 114
 <223> n = A,T,C or G

<400> 725
 atagaaaggg catacccaaa atgttactga aaatntaata caaattccaa gattcaccaa 60
 ngaagtaaca aaaacctggc ctgcangngg ncccctatcc cgtggctcca tggntgatgt 120
 gg 122

<210> 726

<210> 729
<211> 564

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 399, 439, 463
<223> n = A,T,C or G

<400> 729
ctgtgagtag aggagtcttc cggagagtag cagttgttga tccaaatgat tgaagccttc 60
aggtaaggga ataactgctg caggaattct ttcttgaaga atttaagctg tttggtaaga 120
attctgtaac tacatacctt tgaaacacta ttcacattca aataaacgct tgttttctag 180
ccaggcacag gctcaattag tttttcaaac tctagccaag gcagtatttc atttgggaaa 240
tcatgcaaca gaactgctca attcttaact totctgctg ttaacattta cacttagact 300
gccagcaaca gttaacttaa attttgggtc caagggaaca aaaaaaatt gcattcagaa 360
tttaatatag ttttttaaaa ctaatttttag cctgtaagnc attatgagca atagtaactt 420
ttatacctcc tcactctgnc tgataatata ttctatatgc tgncaatctg attatatagt 480
ctatatgcta gaagttgctg attttcattc tgccaccaa aaaaactgtc cttttttttt 540
tatgggggaa aaagggaatt taaa 564

<210> 730
<211> 310
<212> DNA
<213> Homo sapiens

<400> 730
ccatttttat ttcttcttca gagaagtgtt tatttaggtc tgttgcccat tttacaatta 60
ggccatatgt ttcttctgctg ttgagttgta tgtgtgtttg tataaatttt gcatattaac 120
cccttatcac acgtatgttt tttaaaataa attttgctta ttaatttttt atcagatgta 180
tggttttcaa atatatcttt ccgatccatg gattctcttt tttgttatga ttgtttcttt 240
gctcttcgga agctttttgt tttgttttgt tatttgtttt actttgatat agtcccatth 300
attgtttttg 310

<210> 731
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 260, 276, 334, 388, 392, 407
<223> n = A,T,C or G

<400> 731
ngacaacctt agccaaacca tttaccccaa taaagtatag gcgatagaaa ttgaaacctg 60
gcgcaataga tatagtaccg caagggaag atgaaaaatt ataaccaagc ataataaagc 120
aaggactaac cctatacct tctgcataat gaatttaacta gaaataactt tgcaaggaga 180
gccaaagcta agacccccga aaccagacga gctacctaa aacagctaaa agagcacacc 240
cgtctatgta gcaaaatagn gggaagattt ataggnagag gcgacaaacc taccgagcct 300
ggtgatagct ggttgtccaa gatagaatct tagntcaact ttaaatttgc ccacagaacc 360
ctctaaatcc ccttgtaaatt ttaactgnta gnccaaagag gaacagntct ttggacacta 420
ggaaaaaacc ttgtagagag agtaaaaaat ttaacacca tagtagg 467

<210> 732

<400> 734
nrgtccagaa caagagaaat aactgcagaa aacacatatg gttggaaacc atgcgcttgt 60

gacttttttct gtagcctatg ggagtggaca gagtgggtaa cccaagatgt ttttaagact 120
 gactggacta agaatggcgt acttatagcc aactacttcc cccctaattgt gactgaaggg 180
 attcataatg atcacaatta gcattacggt taagtatttt agggttgacg tctaagctca 240
 cacttgaaag gtattttatct aatgg 265

<210> 735

<211> 216

<212> DNA

<213> Homo sapiens

<400> 735

atttaatacg tgctcactgc tcggcacgcg ctgaagctac agttaacaat cagtgagcac 60
 atattaaatg ataaaaataat gctgatggta aacattcata acagcagagt aagattttgg 120
 cagttttgtg tctcggtaac ataaactgtaa ccttagatga acacctatcc cttcatgac 180
 tgactttaga ggcaaggagt ttgtaacatc taatgg 216

<210> 736

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 13, 177

<223> n = A,T,C or G

<400> 736

ctgaaaggca acntggagac tagttagtct agtcccctca tattataaat tggatatgctg 60
 aggccaggca gtaaatgtct atggagctct ccaatttaag gccagtttga ctccaaggg 120
 agggcttcta gtaaaatttt gtgattaaat tggaaactct aattttattt totatgngtt 180
 tttggtacct aatcctcata agcaagccat atttcaaggc tgatcaatga aaacacccaa 240
 taccaaagct tcctttccct tccaaattta ctgacccttt gtcag 285

<210> 737

<211> 509

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4, 13, 303, 347, 419, 446, 473, 483, 489, 503

<223> n = A,T,C or G

<400> 737

agangaagaa gangaagatt aagggaagaa tacatcggtc aagaagagct caacaaaaca 60
 aagcccatct ggaccagaaa tcccgacgat attactaatg aggagtacgg agaattctat 120
 aagagcttga ccaatgactg ggaagatcac ttggcagtga agcatttttc agttgaagga 180
 cagttggaat tcagagccct tctatttgct ccacgacgtg ctctttttga tctgtttgaa 240
 aacagaaaaga aaaagaacaa catcaaattg tatgtacgca gagttttcat catggataac 300
 tgnaggagc taatccctga atatctgaac ttcattagag ggggtggnaga ctcgaggat 360
 ctccctctaa acatatcccg tgagatgttg caacaaagca aaattttgaa agttatcang 420
 aagaatttgg gtcaaaaaat gcttanaact ctttactgaa ctggcggaag atnaagagaa 480
 ctncagana ttctatgagc agntctctt 509

<210> 738
 <211> 97
 <212> DNA
 <213> Homo sapiens

<400> 738
 cagtgaattg aatacgactc ctatagggcg aattggggccc tctagatgca tgctcgagcg 60
 gccgccagtg tgatggatat ctgcagaatt cgccctt 97

<210> 739
 <211> 209
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4
 <223> n = A,T,C or G

<400> 739
 ccgncagtg gatggatata tgcagaattc gcccttagcg gcccgcccg gcagggctct 60
 tatatatagt agcttagttt gaaaaaatgt gaaggacttt cgtaacggaa gtaattcaag 120
 atcaagagta attaccaact taatgttttt gcattggact ttgagttaag attatttttt 180
 aaatcctgag gactagcatt aattgacgg 209

<210> 740
 <211> 164
 <212> DNA
 <213> Homo sapiens

<400> 740
 ccaagctaag gggtgacact gtgaatgcaa ctctaattgca gcctggcgta aatggtccta 60
 tgggcactaa ctttcaagtt aacacaaaca gaggaggtgg tgtgtgggaa tctggtgcag 120
 caaactccca gactacatca tggggaagtg gaaatggcgc aaat 164

<210> 741
 <211> 514
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 82, 438, 485, 497
 <223> n = A,T,C or G

<400> 741
 ccagtcagaa ttgagatgtg ctgtgagtgc aaaatacact caaatctaag acttagtatg 60
 gaagaaaaag aagataaggt gnttcattaa taatctttta tattgattac atgttgaaat 120
 gatattttta atatactggg ttacataaac tggtatttaag attaatattg cttgtttctt 180
 ttttaatatg gctactagaa aattaaaaat tatgttgttg ttacattat atttctgttg 240
 aacaatgtgg acatagataa tctacagtca ttacattagc cttagaattt agcatcatac 300
 ttttaagcac tctggggtac taacttgaac tcccagaaac ccataagcac actctgcata 360
 taaattattg caaaattcat tcttatctct ctgaaagata tgcatttttaa gggtaaaaag 420
 aattcacaaa atattganc ttaacaaat gtcaattagt atatggagag agctaaagga 480

cttcntgtag actggtncat tggggaaaaa caga

514

<210> 742

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 28, 123, 144, 347, 367

<223> n = A,T,C or G

<400> 742

```
gcaggtccta tgcatagtta ataaggnta taatctactc aacatggaaa atgggagcct 60
atttgcaaac acacgagtaa ttaaagtacc aattctctct tagtttcttt ttttatagtt 120
ggnttatattt gcaattataa atgntaaaca tccctagaga tgaaagttaa aatggctgat 180
cacagatcag tagcaaaata caaattgaca attcaaaatt ataaataaaa ctctgttgag 240
gatgtttaac tttaggcctc caaatttaag agctaagcct ggaagaaaca aatttatagg 300
ttatatattcc ctcttaaatt aaaaaacaaa ctccctctgg cagtagnttg tgaattcctt 360
tcattgnaat gataccatga ttacaggatc aaaaatgctt aacttacttg ccattctgct 420
cacatcatca cagttgttt                                     439
```

<210> 743

<211> 275

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3

<223> n = A,T,C or G

<400> 743

```
cangacgcta cttcccctat catagaagag cttatcacct ttcatgatca cgccctcata 60
gtcattttcc ttatctgctc cctagtoctg tatgcccttt tcctaacact cacaacaaaa 120
ctaactaata ctaacatctc agacgctcag gaaatagaaa ccgtctgaac tatcctgccc 180
gccatcatcc tagtcctcat cgccctccca tccctacgca tcctttacat aacagacgag 240
gtcaacgata cctcccttac catcaaatca attgg                                     275
```

<210> 744

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5

<223> n = A,T,C or G

<400> 744

```
ctgtncctttt aaaaaatctg gatgtttttt atttagtgat tgttcgacaa ttagctgctt 60
caaaacataa tgtgcattgc ttatgaatgc cttcatatac taatacagat actctgataa 120
tattacactc taataaggat aatgctgaat tttgaaagga cacaaaacat ctaatgccaa 180
tatatacatg attagccaac atctttgcta tcaagaccac tcgtttttta ataaagatgc 240
```

aagtgtcagt tgtagattat tgggatgaag ctaaattcccc agaatgcagc agcag 295

<210> 745
 <211> 477
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 434
 <223> n = A,T,C or G

<400> 745
 cgcggttactg tacatattgc tagcaggaga caactggaaa tactaaacaa atactggaat 60
 tcacattaca gacagacgaa accaacaatgg atgccacaca taacttcctt tgtagtttca 120
 cagagagcct atttgtggtt gctcagggtgg ggtcatacat tgcttgacaga aatggcctga 180
 tcatagctct atgaaacaat gaattcggaa tgaaatctta ccatgacacc tctctgtagg 240
 aaagaaatgt tgcttcacgt gtgctaagtt gagataataa tatttcacat atttatatac 300
 agagaatcac tctcaaatctt aaccaaatg aagcaatagg atttgggggt gacttggtaca 360
 cattttctaac aacactttttc ttttttctag aggtcactct caaacactga tatatcacta 420
 tagtttgagt gtanggattc agtaatcaaa ggttggttatt gcaaaagagc caggcag 477

<210> 746
 <211> 524
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 393
 <223> n = A,T,C or G

<400> 746
 ctgtgaaatt ggggttgggag agccaaaata ctttacaact tcagaccgga gaaaaggcca 60
 gaggtgtgaa gtttagactct atgatgaaac agagtcgtct tttgcgatga catgttggga 120
 taatgaatcc attctacttg cacagagctg gatgccacga gaaacagtaa tatttgctc 180
 agatgtaaga ataaattttg acaaatttcg gaactgcatg acagcaactg taatctcaaa 240
 aaccattatt acaactaatc cagatatacc agaagctaac attctgctga attttatacg 300
 agaaaataaa gaaacaaatg ttctggatga tgaaattgac agttatttca aagaatccat 360
 aaattttaagt acaatagttg atgtctacac agntgaacaa ttaaaggga aagctttgaa 420
 gaatgaagga aaagctgatc cttcctatgg catcctttat gcctacattt ccacactcaa 480
 cattgatgat gaaactcaaa agtagttcga aatagatggt ccag 524

<210> 747
 <211> 456
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 411
 <223> n = A,T,C or G

<400> 747

<222> 350, 364, 454
 <223> n = A,T,C or G

<400> 750
 ccatgctggt ctogaactcc tgaactcagg tgatccaccc gcctcagtct cccaatagat 60
 tacatatatt attaataaat tgcttccttt aacaccctat tcattgaatt ttccagtaaa 120
 ccacaattac taattactcc tgaaatcaga aaagagggtta aaaagatttt ataacagtat 180
 cctatgaaat ctactacttt caagtaatag tagttgaatt accaaaaccc gtcactcaag 240
 ccaatgacta caattaagat atgagtaaca ttctctagat aaataaagtc aattaattat 300
 atttgcattc gggaaataga gaaagtacat ataagccatg attttgaagn caaaagagag 360
 agantatttg ccaaggagggt gtgagttata gtatgtaatt ataacataca gaagcttttt 420
 gtatgctggt aactaatttt aatttcctac attnttatgg agatttctgc tattcttgtc 480
 ctattttcca cct 493

<210> 751
 <211> 364
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 34, 211, 360, 362
 <223> n = A,T,C or G

<400> 751
 cgaggctggt naaggtcacc aagtctgcc aganagctca gaaggctaaa tgaatattat 60
 ccctaatacc tgccacccca ctcttaatca gtggtggaag aacggctctca gaactgtttg 120
 tttcaatttg ccattttaagt ttagtagtaa aagactgggt aatgataaca atgcatcgta 180
 aaaccttcag aaggaaaagga gaatgttttg nggaccactt tggttttctt ttttgctgtg 240
 ggcagtttta agttattagt ttttaaaatc agtacttttt aatggaaaca acttgaccaa 300
 aaatttgta cagaattttg agaccattta aaaaagttta atgagataaa aaaaaaaaaan 360
 cntg 364

<210> 752
 <211> 498
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 17, 368, 395, 400, 425
 <223> n = A,T,C or G

<400> 752
 ctggattatg ggttggnatt ggtcatatgt tagactccat acaggcatag ctatgatgca 60
 gtgaatccct tagaagttac aattctcaaa ttacatactt cctcagatgt aacattagaa 120
 ctcaatattt ctaacaataa cataccagaa aaggctggac tggcactcat ctgctgacta 180
 acttgtagcc tcagtaatat gacatacttg cctttaacaa attatctcaa attaactaac 240
 agaccttcag aaaatggaga ttctttttga tggggacata atcaaattta agtctgagaa 300
 atatgcttaa cagttggaac tcaaattaaa tgtactgatt ttaaagttaa gacattaaca 360
 agtgatanat tagcctcaaa aaaagacaat ttggnaaagn ttaggtcttt taatttggtg 420
 cttgntcaca acttgactgg tgcttctttc cttgctgctt cacatcaagc atggggccaa 480
 ttctattttc agtaaatg 498

<210> 753
 <211> 467
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 15, 77, 314, 317, 335, 419
 <223> n = A,T,C or G

<400> 753
 nacaacctta gccanaacca tttacccaaa taaagggata ggcgatagaa attgaaacct 60
 ggcgcaatag atatagnacc gcaagggaaa gatgaaaaat tataaccaag cataatatag 120
 caaggactaa cccctataacc ttctgcataa tgaattaact agaaataact ttgcaaggag 180
 agccaaagct aagacccccg aaaccagacg agctatctaa gaacagctaa aagagcacac 240
 ccgtctatgt agcaaaatag tgggaagatt tataggtaga ggcgacaaac ctaccgagcc 300
 tgggtgatagc tggntgncca agatagaatc ttagntcaac tttaaatttg cccacagaac 360
 cctctaaatc cccttgtaaa ttttaactgtt agtccaaaga ggaacagctc ttggacacna 420
 ggaaaaaacc ttgcagagag agtaaaaaat ttaacaccca tagtagg 467

<210> 754
 <211> 196
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 17
 <223> n = A,T,C or G

<400> 754
 gtcattgttca agtgttntaa tctgacgcag gcttatgcgg aggagaatgt tttcatgtta 60
 cttataactaa cattagttct tctatagggg gatagattgg tccaattggg tgtgaggagt 120
 tcagttatat gtttgggatt ttttaggcag tgggtgttga gcttgaacgc tttcttaatt 180
 ggtggctgct tttagg 196

<210> 755
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 755
 ctggaaagga ttctgtacat ataagacatc aaatattgag ggatactgga actttttaa 60
 taatgggcaa agaaagtcaa caaaggaagt tcatatgaaa tcaaactagt aatatgatta 120
 caaaaaaaaaa gtttaaaatt tttcttggcc ccagtcttat catttctgag ccaaatacaa 180
 ttctatcgaa atcacctgaa actgaaatca ccattctagg ctgggttttcc cataaagatg 240
 gactgctcca aaaagaggaa tcaagaaaga atttggctca cagtgaatta ttcactttgt 300
 cttagttaac taaaaataaa atctgactgt taactacaga aatcatttca aattctgtgg 360
 tgataataaa gtaatgaccg c 381

<210> 756
 <211> 341
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3
 <223> n = A,T,C or G

<400> 756
 ggntataaac ctattattta ttgcagaact aataaaaaat ccaaagcctt gtatttgtac 60
 atctttatta tctctaaagc actttcctca acctaatttc agttttttaca attgggtactc 120
 aagaaaatag agacagaaat cattttgattt tgcccagaaa ccatctgctt atattttataa 180
 ggccacctaa tttgaaatca catatagacc aggcgcggtg gctcacgcct gtaattccaa 240
 cactttggaa ggccaaggca ggtggatcac aagggtcaaga gattgagacc atcttggcca 300
 acatggcgaa accccgtctc taccaaaaaat acaaaaatca g 341

<210> 757
 <211> 479
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 359, 425, 431
 <223> n = A,T,C or G

<400> 757
 cgcnttactg tacatattgc tagcagggag acaactggaa atactaaaca aatactggaa 60
 ttcacattac agacagacga aaccaacatg gatgccacac ataacttcct ttgtagtttc 120
 acagagagcc tatttgtggt tgctcaggtg gggtcataca ttgcttgagc aaatggcctg 180
 atcatagctc tatgaaacaa tgaattcgga atgaaatctt accatgacac ctctctgtag 240
 gaaagaaatg ttgcttcacg tgtgctaagt tgagataata atatttcaca tattttatata 300
 cagagaatca ctctcaaatt taacccaaga taagcaatag gatttggggg tgacttgtn 360
 acattttctaa caacactttt cttttttcta gaggtcactc tcaaacactg atatataact 420
 atagnttgag ngtagggatt caagtaatca aagggttgta ttgcaaaaga gccaggcag 479

<210> 758
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 6
 <223> n = A,T,C or G

<400> 758
 ccatgnctag gtttatagat agttgggtgg gttgggtgtaa atgagtgagg caggagtccg 60
 aggaggttag ttgtggcaat aaaaatgatt aaggatacta gtataagaga tcagggttcgt 120
 cctttagtgt tgtgtatggc tatcatttgt tttgagggtta gtttgactag tcattgttgg 180
 gtggttaatta gtcggttgtt gatgagatat ttggagggtg ggatcaatag agggggaaat 240
 agaatgatca gtactgcggc gggtagg 267

<210> 759
 <211> 449
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 371

<223> n = A,T,C or G

<400> 759

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cgaggtcttg aaatcagcaa cacacttaca aatgagaaaa tgaaaataga agagtatata 60
aagaaagga aagaggatta tgaagagagt catcagagag ctgtggctgc agaggatatcc 120
gtacttgaaa actggaagga gagtgaagtg tataagctac agatcatgga gtcacaagca 180
gaagcctttc tgaagaagct ggggctgatt agccgtgata ctgcagcata tcccgacatg 240
gagtctgata tacgttcatt ggaattgttt ctttctaatt ttacaaaaga aattgagaaa 300
gcaaagtctc agtttgaaga acaaattaag gcaattaaaa atggttcccg gctcagtga 360
ctttctaaag ngcagatttc tgagctttca tttcctgcct gtaacacggt tcatcccgag 420
ttactccctg agtcttcagg ccacgatgg 449
```

<210> 760

<211> 414

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5, 34, 136, 169, 173, 209, 227, 246, 269, 274, 291, 316, 341, 414

<223> n = A,T,C or G

<400> 760

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ccatnaactg gaagcagctc actaaacaaa cagnggcata cccatagaac tgcatacttc 60
tcagcagtat gaaagaatga gctacttata taagcatcat tgataaacct caaaaaaaaa 120
atgccacatg aagaanccca agggggagaa acataaaaaac tttatatgnc agncatataa 180
aattctagaa aatgcaaact aatccatcnt aaaggaaagt aaatcancag ttgtctggag 240
gaccanagag agcaggagga gagagattnt taanggggtt aaagtaaatt ngggagtgcc 300
cttccatttt taaatnctat gaaaatgaaa gtaaaggccc ntgcatgttg taaactaata 360
gtaacaaaaca gattggggtg gagtggggtg ttgtctgggg acatcattac aaan 414
```

<210> 761

<211> 428

<212> DNA

<213> Homo sapiens

<400> 761

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gagcctcact aaaataacag atttcagtat agccaagtgc atcagaaaaga ctcaaatgga 60
atgatttaca agatagaaca ctttaaacca ggtcagtcct atctttttgt agctgaaggc 120
tatcagtcatt aacacaattt cgcgtacacc tctgctcatt atggaattac acttaaaacg 180
aatctcaaga gggtgaccat tgttgtttca gataccatcc ctaaggagag tgggttaacag 240
gaagattgcc agtggtactg atggaaagaa gtgtttgttt gttttttttc ttgtcaaaga 300
cttacaccat agtttttaaat taaactgtca ggcattttct cagacaggtt ttccttttca 360
atgcagtaat gaagaactaa gataaaaaatc atgacttttg actgccactc aacattatta 420
catgcacc 428
```

<210> 762

<211> 574

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 47, 190, 449, 509, 510, 552
<223> n = A,T,C or G

<400> 762
caggtctgaa ctgataagta ttaagagacg tttgttgcta gttaagngtt ccagttgaga 60
gttcgaagtg aaaacctggg ctctttacca gtgttgagtg agaagattta tttctctttc 120
ctctgaattt accacatgta acatcacaga gacatgtaga gttccttttag gatttgcgat 180
ttgaaccagn ccagtctgat tttcaggtga attctgtgaa gagcttgatg ggggaagtct 240
gaagacagaa ggaattaggg aaaaggggtga tacttacaga gtaaaggaaa taaatgaaaa 300
gataatggta tttttggtag ccacagggaa atagcaggag gggactggag atcacacaca 360
cgcacacgca cacacacaaa cacacacaca cgctaaaact caaactaaaa acctcccaaa 420
ggagctgctt tgtttgcaga cttcaattng aagtagatac taagggcaag aatagaccag 480
ttaaaattca cctgaaaatc tcttccann cttcaaatgt gctaaaatat cactgtcagc 540
ttagcatctc tncatgtatg tatatataga tgta 574

<210> 763
<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 41, 116, 411
<223> n = A,T,C or G

<400> 763
cctactatgg gtgttaaaat tttttactct ctctacaagg ntttttcta gtgtccaaag 60
agctgttcct ctttgacta acagttaaat ttacaagggg atttagaggg ttctgnnggc 120
aaatttaaaag ttgaactaag attctatctt ggacaaccag ctatcaccag gctcggtagg 180
tttgtcgcct ctacctataa atcttcccac tattttgcta catagacggg tgtgctcttt 240
tagctgttct taggtagctc gtctgggttc ggggggtctta gctttggctc tccttgcaaa 300
gttatttcta gttaattcat tatgcagaag gtataggggt tagtccttgc tatattatgc 360
ttggatataa tttttcatct ttcccttgog gtactatata tattgcgcca ngtttcaatt 420
tctatcgctc atactttatt tgggtaaatg gtttggtctaa gggtg 465

<210> 764
<211> 151
<212> DNA
<213> Homo sapiens

<400> 764
ctgtcaatta atgctagtcc tcaggattta aaaaataatc ttaactcaaa gtccaatgca 60
aaaacattaa gttggttaatt actcttgatc ttgaattact tccgttacga aagtccttca 120
catttttcaa actaagctac tatatttaag g 151

<210> 765
<211> 251
<212> DNA
<213> Homo sapiens

<400> 765
gaagagctta tcacctttca tgatcaagcc ctcatagtca ttttccttat ctgcttccta 60
gtcctgtatg cccttttcct aacactcaca acaaaactaa ctaataactaa catctcagac 120
gctcaggaaa tagtaaccgt ctgaactatc ctgcccgcga tcatcctagt cctcatcgcc 180
ctcccatccc tacgcatcct ttacataaca gacgagggtca acgatccctc ccttaccatc 240
aaatcaattg g 251

<210> 766
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10
<223> n = A,T,C or G

<400> 766
cgaggctctgn cctcctgggtt cttcatccat tattaacaga agagcatact ggtttcggtc 60
cataaaatct ttgggaagggt acaactgtaa aggaagttca tagtcgtcaa tatgaaggat 120
tttaatttct ggcttttccta tctttcttctt caggatagct tccttcagca tagaattgtt 180
ttccaatata aaatatatttg ctgggttggtc cgtactatgt aggctgacca ctgggaccct 240
tggaccttca cagaataata agaaatgttg attcatggga ctaaaactgg catcaaaata 300
tgtacattgt tctttcatga aattacatga aatgcattgg cgattcaata atccttcagt 360
agaagcactg tacag 375

<210> 767
<211> 485
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 70, 160, 386, 408, 440, 484
<223> n = A,T,C or G

<400> 767
cgaggctctga accctcgtgg agccattcat acaggtcctt aattaaggaa caagtgatta 60
tgctaccttn gcacgggttag ggtaccgcgg cccgttaaac atgtgtcact gggcaggcgg 120
tgcctctaata actgggtgatg ctagagggtga tgtttttggn aaacaggcgg ggtaagattt 180
gccgagttcc ttttactttt tttaaccttt ccttatgagc atgcctgtgt tgggttgaca 240
gtgagggtaa taatgacttg ttggtgattg tagatattgg gctgttaatt gtcagttcag 300
tgttttaatc tgacgcaggc ttatgcggag gagaatgttt tcatgttact tatactaaca 360
ttagttcttc tatagggtga tagatnggtc caattgggtg tgaggagntc acttatatgt 420
ttgggatttt ttaggtaagn ggggtgttgag cttgaacgct ttcttaattg ggggctgctt 480
ttang 485

<210> 768
<211> 379
<212> DNA
<213> Homo sapiens

<220>

<211> 207
 <212> DNA
 <213> Homo sapiens

<400> 771
 cataaatatt atactagcat ttaccatctc acttctagga atactagtat atcgctcaca 60
 cctcatatcc tccctactat gcctagaagg aataatacta tcactgttca ttatagctac 120
 tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180
 ctttgccgcc tgcgaagcag cggtagg 207

<210> 772
 <211> 384
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 115
 <223> n = A,T,C or G

<400> 772
 cctactatgg gtgttaaatt ttttactctc tctacaagggt tttttcctag tgtccaaaga 60
 gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgnnggca 120
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
 ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240
 agctgttctt aggtagctcg tctgggttctg ggggtcttag ctttggtctt ccttgcaaag 300
 ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
 tggttataat ttttcatctt tccc 384

<210> 773
 <211> 182
 <212> DNA
 <213> Homo sapiens

<400> 773
 cccttttctt aacactcaca acaaaactaa ctaatactaa catctcagac gctcagggaa 60
 atagaaaccg tctgaactat cctgcccgcc atcatcctag tctcctcgc cctcccatcc 120
 ctacgcatcc tttacataac agacgaggtc aacgatccct cccttaccat caaatcaatt 180
 gg 182

<210> 774
 <211> 191
 <212> DNA
 <213> Homo sapiens

<400> 774
 ccatggctag gtttatagat agttgggtgg ttgggtgtaa atgagtgagg caggagtccg 60
 aggaggttag ttgtggcaat aaaaatgatt aaggatacta gtataagaga tcaggttcgt 120
 cctttagtgt tgtgtatggc tatcatttctt tttgagggtta gtttgattag tcattgttgg 180
 gtggttaatta g 191

<210> 775
 <211> 192
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12, 45, 51, 62, 90, 114, 134, 163

<223> n = A,T,C or G

<400> 775

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ccatggctaa gntatataga tagctgggtg gctggagtaa atgantgagg nacgagtcgg 60
angaggttag ttgaggcaat aaaaatgatn aaggatacta gtataagaga tcangttcgt 120
cctttacatg ttgngtatgg ctatcatttg ttttgaggct agnttgatta gtcattgttg 180
ggtggtaatt aa 192
```

<210> 776

<211> 144

<212> DNA

<213> Homo sapiens

<400> 776

```
ctgacccctt agaaccctgg ctctgccatt agctaggacc taagactctg cccacatttt 60
ggtctgttct ctcccattac acataggttt gtctcagcat gcaagagttt ttcctttaaa 120
aaaaaaaaaa aaaaaaaaaa aaaa 144
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<210> 777

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 14, 339, 461

<223> n = A,T,C or G

<400> 777

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cctactatgg gtgntaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcttc tttggactaa cagttaagtt tacaagggga tttagagggg tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgcttc tacctataaa tcttcccaact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttct ggggtcttag ctttggtctt ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggnt aagtccttgc tatattatgc 360
ttggatataa tttttcatct ttcccttgcg gtactatata tattgcgcca ggtttcaatt 420
tctgccgcct atactttatt tgggtaaatg gtttggctaa ngttgctggg agaaggtgga 480
gtg 483
```

<210> 778

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 295, 297, 370

<223> n = A,T,C or G

<400> 778
 ctgcattttt attgcatctt gcagatgaac tgggaaaatc tcattttaca acagaactga 60
 gacagacgac caccatattc actgaggtct aaatttgcag tttccactaa tgacattttg 120
 atttcccaac agagatactt ctggtcttac tgcacagtct ttaagagaa atacttccat 180
 tatgccacat tgtccttgat cagtaagtga tgtgttaagg tgcttcaaag gaactctgac 240
 ctctgaagta cttgagctac tttagtatgt ccagcctatt gctttttgtt ttagngngtc 300
 accataaata tcaggggcat aaaaggctat ctattcttaa ttcaaggata aaacagaaga 360
 agcttgtggn ataaaacaat agtcaagatc cag 393

<210> 779
 <211> 277
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4
 <223> n = A,T,C or G

<400> 779
 cctnttgatt tgatgggtaa ggggagggat cgttgacctc gtctgttatg taaaggatgc 60
 gtagggatgg gagggcgatg aggactagga tgatggcggg caggatagtt cagacggttt 120
 ctatttccctg agcgtctgag atgttagtat tagttagttt tgttgtagt gttaggaaaa 180
 gggcatacag gactaggaag cagataagga aaatgactat gagggcgtga tcatgaaagg 240
 tgataagctc ttctatgata ggggaagtag cgtcttg 277

<210> 780
 <211> 328
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 19, 33, 38, 84, 323
 <223> n = A,T,C or G

<400> 780
 catgntatgg ataaccatnt taactgtatt ttntgcance cgtaccttct tgggaataca 60
 attgtctaac tttttatttt tggngctggct gttgtggtgt gcaaaactcc gtacattgct 120
 attttgccac actgcaacac cttacagatg tggagatgt gaaatttgct atcaattatg 180
 actaccctaa ctctcagag gattatatc atogaattgg aagaactgct cgcagtacca 240
 aaacaggcac agcatacact ttctttacac ctaataacat aaagcagggg agcgacctta 300
 tctctgtgct tcgggaagct aancaaac 328

<210> 781
 <211> 305
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 75, 237
 <223> n = A,T,C or G

145 150 155 160
 Val Ser Val Lys Pro Gly Glu Glu Val Ile Pro Lys Asp Glu Asn Gly
 165 170 175
 Lys Ile Leu Phe Asp Thr Val Asp Leu Cys Ala Thr Trp Glu Ala Met
 180 185 190
 Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile Gly Val Ser Asn
 195 200 205
 Phe Asn His Arg Leu Leu Glu Met Ile Leu Asn Lys Pro Gly Leu Lys
 210 215 220
 Tyr Lys Pro Val Cys Asn Gln Val Glu Cys His Pro Tyr Phe Asn Gln
 225 230 235 240
 Arg Lys Leu Leu Asp Phe Cys Lys Ser Lys Asp Ile Val Leu Val Ala
 245 250 255
 Tyr Ser Ala Leu Gly Ser His Arg Glu Glu Pro Trp Val Asp Pro Asn
 260 265 270
 Ser Pro Val Leu Leu Glu Asp Pro Val Leu Cys Ala Leu Ala Lys Lys
 275 280 285
 His Lys Arg Thr Pro Ala Leu Ile Ala Leu Arg Tyr Gln Leu Gln Arg
 290 295 300
 Gly Val Val Val Leu Ala Lys Ser Tyr Asn Glu Gln Arg Ile Arg Gln
 305 310 315 320
 Asn Val Gln Val Phe Glu Phe Gln Leu Thr Ser Glu Glu Met Lys Ala
 325 330 335
 Ile Asp Gly Leu Asn Arg Asn Val Arg Tyr Leu Thr Leu Asp Ile Phe
 340 345 350
 Ala Gly Pro Pro Asn Tyr Pro Phe Ser Asp Glu Tyr
 355 360

<210> 784

<211> 6353

<212> DNA

<213> Homo sapiens

<400> 784

tggcgcaatgg gacgcgcacct gtagcggcgc attaaagcgcg gcggggtgtgg tggttacgcg 60
 cagcgtgacc gctacacttg ccagcgcacct agcgcgcgct ccttttcgctt tcttcccttc 120
 cttttctcgcc acgttcgcgc gcttttccccg tcaagcteta aatcgggggc tccctttagg 180
 gttccgattt agtgctttac ggcacctcga ccccaaaaaa cttgattagg gtgatgggtc 240
 acgtagtggg ccatcgccct gatagacggt ttttcgcctt ttgacgttgg agtccacgtt 300
 ctttaatatg ggactcttgt tccaaaactgg aacaacactc aaccctatct cggctctattc 360
 ttttgatttta taagggattt tgccgatttc ggccctattgg ttaaaaaaatg agctgattta 420
 acaaaaaattt aacgcgaatt ttaacaaaat attaacgttt acaatttcag gtggcacttt 480
 tcgggggaaat gtgcgcggaa cccctatttg tttatttttc taaatacatt caaatatgta 540
 tccgctcatg aattaattct tagaaaaact catcgagcat caaatgaaac tgcaatttat 600
 tcatatcagg attatcaata ccatattttt gaaaaagccg tttctgtaat gaaggagaaa 660
 actcaccgag gcagttccat aggatggcaa gatcctggta tcgggtctgcg attccgactc 720
 gtccaacatc aatacaacct attaatttcc cctcgtcaaa aataaggtta tcaagtgaga 780
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<212> DNA

<213> Homo sapiens

<400> 788

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<210> 789

<211> 200

<212> PRT

<213> Homo sapiens

<400> 789

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Glu Val Pro Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg
      35           40           45
Trp Lys Thr Met Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala
      50           55           60
Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro
      65           70           75           80
Ala Lys Gly Gly Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro
      85           90           95
Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys
      100          105          110
Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly
      115          120          125
Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr
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Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr
      145          150          155          160
Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala
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<210> 790

<211> 457

<212> DNA

<213> Homo sapiens

<400> 790

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 <213> Homo sapiens

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 35 40 45
 Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His Leu Gly
 50 55 60
 Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln Cys Ala Thr
 65 70 75 80
 Trp Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly Ile Asn
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 Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile Ile Pro Lys Glu Glu
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 His Cys Lys Met Pro Glu Ala Gly Glu Glu Gln Pro Gln Val
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 <212> DNA
 <213> Homo sapiens

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<210> 793
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 793
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 20 25 30
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 35 40 45
 Gln Leu Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln Lys Lys Ile
 50 55 60

Arg Ile Gln Leu Arg Ser Gln Val Leu Gly Arg Glu Met Arg Asp Met
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<210> 795
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 795
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 35 40 45
 Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser Lys Leu Trp Ser
 50 55 60
 Thr Phe His Arg Pro Glu Leu Val Arg Pro Ala Leu Glu Asn Ser Leu
 65 70 75 80
 Lys Lys Ala Gln Leu Asp Tyr Val Asp Leu Tyr Leu Ile His Ser Pro
 85 90 95
 Met Ser Leu Lys Pro Gly Glu Glu Leu Ser Pro Thr Asp Glu Asn Gly
 100 105 110
 Lys Val Ile Phe Asp Ile Val Asp Leu Cys Thr Thr Trp Glu Ala Met
 115 120 125

Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile Gly Val Ser Asn
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<210> 796
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 <212> DNA
 <213> Homo sapiens

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<210> 798

<211> 164

<212> PRT

<213> Homo sapiens

<400> 798

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<210> 799
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 799
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 50 55 60

<210> 800
 <211> 2477
 <212> DNA
 <213> Homo sapiens

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<210> 801

<211> 1619

<212> DNA

<213> Homo sapiens

<400> 801

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<210> 802

<211> 3115

<212> DNA

<213> Homo sapiens

<400> 802

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```

acttgactga tghtaagtgtc aagaaaagat tgacattttg ttaaaaacttc gtagccaagt 3120
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cgtacgcaat gtaggaagct gtaattactg accaaaacta tgtgaagtgg agaaaacctg 3660
gggaagtggg tggtttttaga tgaaactgaa gttaaattca tattgattta aagtaaattg 3720
ttataacttt ataaagtttt tcatcatcac cacagcaatc acaaagagaa taattatgaa 3780
tatacgcaag aggaaatgag aagggaatcc aaatgtcatt aaaaaaaaaa 3829

```

<210> 808

<211> 781

<212> DNA

<213> Homo sapiens

<400> 808

```

gcggcggagc tgtgagccgg cgactcgggt ccctgaggtc tggattcttt ctccgctact 60
gagacacggc gggtaggtcc acaggcagat ccaactggga gttgaagtgt gactgagagt 120
gaagaggaa cagcaggctt ccggagggtt gtgtgggtcag tgactcagag tgagaaggcc 180
ctcgaagtgc tcgtccctct catgcgggtgc cagcggccatg gaccttcttg tctcgtcacg 240
gccataacta gggaggaagg agggccgagg agtggagggg ctcaggcgaa gctgggggtgc 300
tggtgggggt atccgagtc cagaagcacc tggaaacccg acagaagatt ctggactccc 360
cagacgggac caggagagg acggcatgag cgacacacac aaacacagaa ccacacagcc 420
agtcccagga gccagtaat ggagagcccc aaaaagaaga accagcagct gaaagtcggg 480
atcctacacc tgggcagcag acagaagaag atcaggatac agctgagatc ccagtgcgcg 540
acatggaagg tgatctgcaa gagctgcac agtcaaacac cggggataaa tctggatttg 600
ggttccggcg tcaaggtgaa gataatacct aaagaggaac actgtaaaat gccagaagca 660
ggtgaagagc aaccacaagt ttaaatgaag acaagctgaa acaacgcaag ctggttttat 720
attagatatt tgacttaaac tatctcaata aagttttgca gctttcacca aaaaaaaaaa 780
a 781

```

<210> 809

<211> 160

<212> PRT

<213> Homo sapiens

<400> 809

```

Met Arg Cys His Ala His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr
1           5           10           15
Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly
20           25           30
Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro Asp Arg
35           40           45
Arg Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg His Glu Arg
50           55           60
His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met
65           70           75           80
Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His
85           90           95
Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln Cys

```


<220>
 <221> misc_feature
 <222> 45
 <223> n = A,T,C or G

<400> 812
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 ttttgcgggc tgccgtacag cggcaagagc cggcgtgctg aagagttgcg cgtggcgctg 120
 gctgccgagg gccgcgcggt gtacgtgggtg gacgacgcag ctgtcctggg cgcagaggac 180
 ccagcgggtgt acggcgattc tgcccgtgag aaggcattgc gtggagctct gcgagcctcc 240
 gtggaacggc gcctgagtcg ccacgacgtg gtcacccctg actcgcttaa ctacatcaaa 300
 ggtttccgtt acgagctcta ctgcctggca cgggcggcgc gcaccccgct ctgcctggtc 360
 tactgcgtac ggcccggcgg cccgatcgcg ggacctcagg tggcggggcgc gaacgagaac 420
 cctggccgga acgtcagtggt gagttggcgg ccacgcgctg aggaggacgg gagagcccag 480
 gcggcgggca gcagcgtcct caggggaactg catactgcgg actctgtagt aaatggaagt 540
 gcccaggccg acgtacccaa ggaactggag cgagaagaat ccgggggctgc ggag 594

<210> 813
 <211> 561
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 121, 352, 368, 440, 445, 486, 497, 516, 528, 540, 550, 552
 <223> n = A,T,C or G

<400> 813
 tctgacacac gagaccggtt atcccatctc cgcgcccctc tgtgggtatt acacagccac 60
 tagatgaagc caaacattgt tggagggtact gaaatcttag actccaccat gtgtccagga 120
 nccattgac gtcctctctt ctgaaaactc cgtgtggccc tcgctctgca ctgtcatgag 180
 gcggtgatgg agctagatac ccaccacgga caatgatcat cagtttgggg ttctctgggt 240
 ctacacagga cgcacattct aggggtagca cgacactccc cctgtagttg ctccacacaa 300
 acgggatctc tcatccaggc gatacgtctg gtcctgtggc atgtggctct cnacgaaaca 360
 ccagggangc attatgttgg ggacttcttg gggctctgct ggtctctgct ccagacacga 420
 ttaatccgaa atgtgttaan tcgancacat ggggtccacgt ccaggacagc tcccatcgaa 480
 ctctcnaggc tctctanctc agggatgaag gaggtnaagt gatcgatnct cacaagcgan 540
 agctctcgcn cnatatctgc g 561

<210> 814
 <211> 307
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 6, 9, 24, 26, 45, 46, 63, 64, 73, 81, 82, 91, 95, 138,
 148, 151, 188, 205, 206, 212, 223, 229, 234, 242, 245, 248,
 252, 258, 262, 270, 278, 280, 301
 <223> n = A,T,C or G

<400> 814
 cntcgnngng ttggttgtgt gggntnttct cgggtgattg ggtgnnatta ctggacccaa 60
 ccnncgtgga aanggctggg nncgcggccg ntctngcaga agtatcccga tttttttttt 120

```

tttttttttt tttttggngg agggaaantt ncagacatag ctttattgct gactcctgcc 180
cccttcanag ccctagtcac aggcnnccagg gntgttttgt aanttaaant ttcnggaaaa 240
tngngtntt tntgcatnca anagaagggn tgccaaangn ggggtattgc ttctgggtgg 300
nttacctt                                     307

```

```

<210> 815
<211> 784
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 596, 656, 727, 763, 768
<223> n = A,T,C or G

```

```

<400> 815
ggcacgagat ataatcagac tcttactcct gtacttctag aaatgatgca aacacttcaa 60
ggaccacaaa atgtggaaga tatgaatgca ctgttaatca aagatgctgt gtataatgct 120
gttggattaa gctgcttatg agctctttga cagtgttgat tttgatcagt ggtttaaaaa 180
ccagcttctt ccagaattac aagtcattca caataggat aagccattgc gacgcagggt 240
gatttggctc atcggtcagt ggattttctgt gaaattcaag tctgacttaa gacccatgct 300
ttatgaagca atctgtaact tgcttcaaga tcaagattta gtggccgtat tgaaacagct 360
acaactttga agttaactgt tgatgatttt gaatttagaa cagatcagtt tctaccgtat 420
ttggaaacca tggtcacact actttttcag ttactgcagc aagttacaga atgtgacaca 480
aagatgcattg ttttgcatgt cctttcttgt gtgatcgaaa gagtcaacat gcagatacga 540
ccatatgtgg gatgtttggt acaatatattg cccctccttt ggaagcagaa gtgaanaaca 600
caatatgttg agatgtgcta ttttgaccac acttattcat cttggtcagg gattangagc 660
agacagcaag acctgtccct ttctgtctcc agttattcac tgagtaccag atgtttcaca 720
gccttcncat gtttattttt ctggaaaatg ggttaaaaat atnggtanga acctttggga 780
aaac                                     784

```

```

<210> 816
<211> 813
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 740, 788, 790, 798, 811
<223> n = A,T,C or G

```

```

<400> 816
ggcacgagca ggctgggaag aagtccttgc ttctcaaggc cacgtaccgg ccgctcctt 60
ccacccttgc cctttaaacc acagatgcca aatgatacgc caacagacac tacattcccc 120
agcagctgct gccagagccc tcttgtagct tctttatttt ctgtttcttt ccagctttcc 180
taccctccta tcccccttg tgtttgggoc acaattttga aataattttt attataggta 240
tgtgtgcca aagccagatt tttataaggt aaaataaatt aagaatttaa acagtaaaag 300
ccagtgtctc aaaatgtcag cattaataatg tgaaggggac agcagggtgt gaaccggaaa 360
cacacattgc caaacagttg ccaactgaac tgctgcttct catgggtccgt tcttttcttt 420
gcccttaagg tcaatgccag tgtccagacg agcagtgtag aaaagctccc tgtgtggttt 480
gtcgtgaggt ctgcttgtat ctcttcaactg gcgttagttt cattagctct ttattctcct 540
tacgttcgag tgaatctgcc aagaacactg gtggatagta ttatcctaac acttttggtt 600
tggtggcggg gagggggcag ggaatagtga gctggcttta ccaccttcag gatctcgaat 660
tggtgccttg aacctaagaa agattgtgga cttatcaaaa gtcaccgctc agtgttcgtc 720

```

aagcatgtat ttatgtgaacn atcatactag ggaggggatg gttgggaatt cttccatgtg 780
 caaattingn cccgcaanaa gcaaaactgg ngt 813

<210> 817
 <211> 229
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30, 57, 102, 112, 124, 222
 <223> n = A,T,C or G

<400> 817
 gaaactttta cattaatgat ttattaaaan aaacaactcc ttgtcccact ccaactgngct 60
 gcttgtaatc tccatacatg gcctccatth tcaactgttt tnttggtcac anagctccaa 120
 acanacacat ttttttttcc aggtaaaagc tgttttttagt ttgtagtaca aatgtgactg 180
 catccaatac tgacacattg ttccttttggc ccacagtccc antcaccac 229

<210> 818
 <211> 781
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 355, 437, 539, 557, 569, 593, 608, 635, 636, 653, 654, 662,
 665, 674, 697, 699, 708, 724, 734, 743, 755, 763, 764, 769,
 775
 <223> n = A,T,C or G

<400> 818
 ggcacgaggt gtgtgtgtgt gtgtgtgtgt aacacatggg cattgggtcct tccaggacaa 60
 cttgggttagg gctccagggt ggctctctcag gcaggaacag gcttttttcc tctgtcttt 120
 tctcacatc acgtcctgcc ccaggctact gcataaataa gtgcttttga aagtattcat 180
 ctagaaagta acataaatac tgtacataga aaagggttgc cgcccccttag ccttcgcaact 240
 gccccagaga gctctccaca tattgcacac ggctcccca gccctgtggg gtccaggcct 300
 ggctgtgtct ttggtagaag ctccaggac agttcctggg cagccccccac atctncaccc 360
 tgctcccaaa ggggagctct agggtagtca gtgggtacca gaagccttgc tcggcctcgc 420
 tgggtggcctt ctaccangga tgctttcaca aggatgagac agaatcccaa tggtagtccc 480
 ctgcttggac actctgtctc aggtctgcat gtggcctggg aggagacagg caggctgang 540
 gcaggtggac aggtgantcc tggccacana aggcaggctc acacccttca cangaatagg 600
 tggtttngc tgcatctcgc gccacggtc tctnntgcg ccaccccccc ttntgaatc 660
 gnaantcctc aaanccctta ccaccacttg atgacnanc attttttangg cctggcttga 720
 aggnngggggc cttnngcccc ccnaaggggg aaatncccc ggngaatnc ccaangggga 780
 a 781

<210> 819
 <211> 199
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> 2, 3, 4, 12, 20, 21, 22, 36, 37, 49, 76, 80, 83, 88, 157,
165, 167, 177

<223> n = A,T,C or G

<400> 819

```

cnnngtgga anggctgggn nngcggccgt ttctcgnngta gtatcgcgnt tttttttttt 60
tttttgtggg aggttntgcn gtntttgntt gctctctcaa attccaggaa ttgactttatt 120
taattaatgc ctgcaacctg tgctagcaaa tatttgnaca aaacnanttg tgttgngat 180
gttcttttgg gtcgggcag                                     199

```

<210> 820

<211> 211

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 2, 3, 128, 131, 150, 157, 159, 166, 172, 174, 180, 182,
185, 192, 202, 206

<223> n = A,T,C or G

<400> 820

```

nnnggcacga ggagagagag agagagagag agagagagag agagagagag agagagagag 60
agagagagag agagagagag agagagagag agagagagag agagagagag agagagagag 120
agacagtntc ntgtgtgtct ctctgtctcn aagtacncnc tgaggatct gntntctgtn 180
tntnggtaca cngtatctct cntggncata t                                     211

```

<210> 821

<211> 952

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 2, 3, 29, 688, 692, 702, 742, 749, 767, 774, 786, 805,
815, 828, 835, 840, 842, 854, 864, 868, 871, 879, 889, 890,
895, 900, 904, 909, 912, 915, 926, 939, 944, 947

<223> n = A,T,C or G

<400> 821

```

nnntcaggct cctggatgag ccctgcgana gaggggtggca gcacggagag agctgctgga 60
ggcagcagag caccaaggaa acatccagac atgcgcggcc cggcccatcc gctcccggaa 120
cagcaccaag acgaaatggg aaactacatg tccccagggt cgaggctgca ggggcagact 180
ctgggtgtgaa caggggggat gtgaccacct aaggaaaagg tcacacctgt cttggtatca 240
ggggctcaag agctctcaaa aatgtaaggg gccgacagtc ccctgccccca ggcctgatca 300
caactccagg gtcgatgaggt cagagtaaag tgcagagggt tttaaacata accaaaattt 360
caggagaggc caattcttac ttgaaagagc aacaccctgg ggcgctgctt gccattactt 420
cctcatcttt agcaacacat ttgcttttca aggtgttctt tgttgaaaca cacatacaca 480
tagacacatg cccctcagat gtcccctgcc ccctgattag tagaatgtgg ggtttccaca 540
atgagcagaa actgatccaa ttttggttaa gtttgagaag ccctctgaat ttgggtggtt 600
ggcccaatgt aaatacttcc gcagagatgg agggcattca aaacagggtt tgaaaggatc 660
cagcctatct tggactttgt tctggaancc anggattcag cnttggccac ctgtgccagg 720
cttgcaaggc ctgggtgtgaa cncccaaaant ggcagcaaaa acaacanaca gccnctgcac 780
tttgngtggg ccaacgtttg gcctnaacaa atctngcggg ttgggatntt cttgntttcn 840

```

cncccagggg accnaaaacc ccntacntg naataacnt ttttttttnn aaccntttan 900
ccantgggnt tncnaaaaa acttgncccc ttttttttnc caangnaaa at 952

<210> 822
<211> 587
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 264, 335, 366, 371, 410, 413, 416, 424, 438, 464, 477, 478,
497, 502, 509, 540, 575, 577, 581
<223> n = A,T,C or G

<400> 822
ggcacgagaa ctagtctcga gttttttttt ttttttttta acatttctga attttattat 60
ttttagggaa gacacgcagt ttcacaagaa acaatgattt ttctcaaaca atagaaaaaa 120
aggtcttttt gaaaaatcca ctgtcttaga tgaaaagtct acccagcaag cactggggca 180
gttctgagag tagaaaccag tgtggtggaa gttacttata ggaagttcag tgcagaggtc 240
tccacaagtc ctgattagtt ctgnaaggct ccattgggcc agctcagggt aacagtggga 300
atgagctcac agacaaaggc aggcaccagt tccntgccc gggatgcagg ctggctcact 360
ccccangcgg ntgcattctg cttcagactc atcaaactgc tgctgtccan ctncgncatg 420
actntgttga gaacatanaa ctctgctctc tggctttgct tcantcctg gtgggcnaa 480
ttctgcttag cttctncac tntgaaggnt gggcttttaa cttttggatt tttttttccn 540
ggcaggggga accatgaatg gggtagacac ccaoncnngg ntttggc 587

<210> 823
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 4, 7, 15, 17, 35, 38, 44, 53, 90, 105, 108, 115, 117,
121, 126, 128, 158, 176, 178, 184, 201, 221, 227, 229, 233,
239, 250
<223> n = A,T,C or G

<400> 823
ntcnatnct actangncaa actgactccg ccctnagnca cctngtggtc canggctgcg 60
gagctgcgat acagccttcc gcgggtctgn tggaaccccg acctntctg gtgtntntcc 120
ntccnncnc ccaaccgcc aagggcctgc ctttctnct gggcctttgc cagcgtntgg 180
ccanaccggg gccaaaccgg nccccgggca cattttaacc nagggcncnc ttntagaana 240
aaaccccggn tgatgttata aagg 264

<210> 824
<211> 520
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 7, 15, 17, 39, 60, 81, 98, 101, 110, 111, 138, 145, 174,
222, 250, 262, 311, 318, 332, 336, 345, 378, 406, 411, 414,

421, 426, 439, 447, 448, 450, 474, 479, 489, 494, 498, 505,
508, 510

<223> n = A,T,C or G

<400> 824

tcaagcngcc	cccantntga	tggatatctg	caaaattcnc	cctttcacccg	gocgcccgc	60
gcatgtctta	ttatacaaca	natccaactt	ccctaagngg	ntcacacatn	ntaaggtatt	120
gttaacaaaa	taggaaantc	tattngaact	aacaatcatc	tctttgaatc	tgcntatccc	180
attaaaagca	ttttcctcaa	tattcctcat	atcggttatg	gncaatggat	acccatctga	240
gctggttgan	ccctttaaat	tnattatact	taactttttg	aaggctgtta	tacccaaggg	300
acaaacctaa	ncaaccanca	gatatacttg	anggtntctc	ctgtnatttc	tcagattcca	360
atataccatt	ttgccttnac	acctacagcc	cttaggggca	tcctcnttcc	ncanaacaaa	420
ncattntcac	taagacagnc	tggggtnntn	caccaatggc	taccaaacct	ctgnccgcna	480
cccaccgcnt	aaanggcnga	aattncenan	ccacacgggt			520

<210> 825

<211> 2064

<212> DNA

<213> Homo sapiens

<400> 825

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gcccgcgcac	cggcaaaaat	acacgggagg	ccgtcgccga	aaagagtccg	cgtcctctc	120
tcgtaaacac	actctcctcc	accggcgcc	ccccctccgc	tctgcgcgcc	gcccggctgg	180
gcgcccagag	ccgctccgac	tgctatgtga	ccgcgaggct	gcgggaggaa	ggggacaggg	240
aagaagagcg	tctcccgcgc	gagcccttga	ggaccaagtt	tgcgccact	tctgcaggcg	300
tcctctctta	gctctcgccc	gcccccttct	gcagccatag	cggcccgggt	tctcttctct	360
tcctcgcgcg	cccagccgcc	tcggttcccg	gcgaccatgg	tgacgatgga	ggagctgcgg	420
gagatggact	gcagtgtgct	caaaaaggctg	atgaaccggg	acgagaatgg	cggcgcgcg	480
ggcggcagcg	gcagccacgg	caccctgggg	ctgccgagcg	gcggcaagtg	cctgctgctg	540
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tgtaaacacca	tcgtgcggcg	gcgggctaag	ggctccgtga	gcctggagca	gatcctgcc	660
gccgaggagg	aggtacgcgc	ccgcttgccg	tcgggcctct	actcgccggg	catcgtctac	720
gacgagcgca	gcccgcgcgc	cgagagccct	cgcgaggaca	gcaccgtgtc	gctggtggtg	780
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gacaagtttc ccagaagtgc ctggttctgt gtacttgtcc ctttgttgtc gttgtttag 2040
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<210> 826
<211> 2109
<212> DNA
<213> Homo sapiens

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taagacttt 2109

<210> 827
<211> 394
<212> PRT
<213> Homo sapiens

<400> 827
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1 5 10 15

```

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      35      40      45
Asp Cys Arg Pro Phe Leu Ala His Ser Ala Gly Tyr Ile Leu Gly Ser
      50      55      60
Val Asn Val Arg Cys Asn Thr Ile Val Arg Arg Ala Lys Gly Ser
      65      70      75      80
Val Ser Leu Glu Gln Ile Leu Pro Ala Glu Glu Glu Val Arg Ala Arg
      85      90      95
Leu Arg Ser Gly Leu Tyr Ser Ala Val Ile Val Tyr Asp Glu Arg Ser
      100      105      110
Pro Arg Ala Glu Ser Leu Arg Glu Asp Ser Thr Val Ser Leu Val Val
      115      120      125
Gln Ala Leu Arg Arg Asn Ala Glu Arg Thr Asp Ile Cys Leu Leu Lys
      130      135      140
Gly Gly Tyr Glu Arg Phe Ser Ser Glu Tyr Pro Glu Phe Cys Ser Lys
      145      150      155      160
Thr Lys Ala Leu Ala Ala Ile Pro Pro Pro Val Pro Pro Ser Ala Thr
      165      170      175
Glu Pro Leu Asp Leu Gly Cys Ser Ser Cys Gly Thr Pro Leu His Asp
      180      185      190
Gln Gly Gly Pro Val Glu Ile Leu Pro Phe Leu Tyr Leu Gly Ser Ala
      195      200      205
Tyr His Ala Ala Arg Arg Asp Met Leu Asp Ala Leu Gly Ile Thr Ala
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Leu Leu Asn Val Ser Ser Asp Cys Pro Asn His Phe Glu Gly His Tyr
      225      230      235      240
Gln Tyr Lys Cys Ile Pro Val Glu Asp Asn His Lys Ala Asp Ile Ser
      245      250      255
Ser Trp Phe Met Glu Ala Ile Glu Tyr Ile Asp Ala Val Lys Asp Cys
      260      265      270
Arg Gly Arg Val Leu Val His Cys Gln Ala Gly Ile Ser Arg Ser Ala
      275      280      285
Thr Ile Cys Leu Ala Tyr Leu Met Met Lys Lys Arg Val Arg Leu Glu
      290      295      300
Glu Ala Phe Glu Phe Val Lys Gln Arg Arg Ser Ile Ile Ser Pro Asn
      305      310      315      320
Phe Ser Phe Met Gly Gln Leu Leu Gln Phe Glu Ser Gln Val Leu Ala
      325      330      335
Thr Ser Cys Ala Ala Glu Ala Ala Ser Pro Ser Gly Pro Leu Arg Glu
      340      345      350
Arg Gly Lys Thr Pro Ala Thr Pro Thr Ser Gln Phe Val Phe Ser Phe
      355      360      365
Pro Val Ser Val Gly Val His Ser Ala Pro Ser Ser Leu Pro Tyr Leu
      370      375      380
His Ser Pro Ile Thr Thr Ser Pro Ser Cys
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```

<210> 828

<211> 453

<212> DNA

<213> Homo sapiens

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 gatcggtattg ttgagcgctg tgacctgect gaaatgcatg tgggtgattg gatgctcttt 180
 gaaaacatgg gcgcttacac tgttgctgct gcctctacgt tcaatggctt ccagaggccg 240
 acgatctact atgtgatgtc agggcctgcg tggcaactca tgcagcaatt ccagaacccc 300
 gacttcccac ccgaagtaga ggaacaggat gccagcacc tgcctgtgtc ttgtgcctgg 360
 gagagtggga tgaaacgcca cagagcagcc tgtgcttcgg ctagtattaa tgtgtagata 420
 gcactctggt agctgttaac tgcaagttaa gct 453

<210> 829
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 829
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 gagaaagggg agagctgaca tgtgtacgta tatgtatatg caacacctgt gagaccccca 180
 ttcaggtcaa ggaaaaccgt tgctgcacc ccaagggccc catatttgcc cctccccatc 240
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 ggagagcatt gaaaactctg ctgcctaagg tcagcatcaa tcaaaacaat gaaatcaatg 360
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 cccacctcat ccaggtaca tttgatgtgc ag 452

<210> 830
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 830
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 tgcacgccct gagctacagc ctctcccaaa aggcatcttc cccacagcct caacgccgag 180
 caaggagcat caagggtttg tctcggttgt tttgttcttt ttacaaacta tagatatata 240
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 agaaaatgcc agaaacatct ttaaattgcct tgtcacacca acagcaaagt gcacagagtg 360
 aggagaacac gagagtgcct tttcatttta aaaatgtttg gaaatatgta caactttgat 420
 acagtttcag ggtgctccag acacccatgg 450

<210> 831
 <211> 395
 <212> DNA
 <213> Homo sapiens

<400> 831
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 ctttgcctgg ccgggagggc cttggcagcc cctcagcaag aagccctgcc tgatgagaca 180
 gaggtggtgg aagaaactgt ggcagagggt actgaggtat ctgtgggagc taatcctgtc 240
 caggtggaag taggagaatt tgatgatggt gcagaggaaa ccgaagagga ggtggtggcg 300
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 aacaccccca tgtgcgtgtg ccaggacccc accag 395

<210> 832
 <211> 291
 <212> DNA
 <213> Homo sapiens

<400> 832
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 agttttttgt gagttatgtc cttgttgctt ttgcctcttt ttctttctag ccttgattgt 180
 gccagaagac aatgtcccta ttcacacact ctttctgctt ttctgtgggc aggaacatgg 240
 aaggggtgct gatggacgtg gactgtgaga gcgtctaccc cactgtgtag g 291

<210> 833
 <211> 491
 <212> DNA
 <213> Homo sapiens

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 ctatctgcct tccaggccac tgtcacggt tccgggtaga agtcacttat gagacacacc 180
 agtgtggcct tgttggttg aagctcctca gaggagggcg ggaacagagt gaccgagggg 240
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<210> 834
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 834
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 gctgctgg 308

<210> 835
 <211> 472
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 365, 402, 406
 <223> n = A,T,C or G

<400> 835
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ggaccccggg gagttgtagt tgcactgtga gtagcctcct tgtttgcctt ggtatgagga 240
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gtagntgtag tcggatccgc ccccccccc gggagagttg tngganttcg agtaggagta 420
gctgccttgt ccatggttat agcctttctg cttgcctgt ggagggccat ag 472

```

<210> 836

<211> 354

<212> DNA

<213> Homo sapiens

<400> 836

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ccagtgaac cttcagatag acacatgggtg accagagccc gccaggcttc tgcagggtggc 60
agtgtcgagc aagtgtgaaga tgtctgtggg aaggagaagc tcctgaaatg aacgttctgc 120
aaacagaagg ctgaggggtc ttccaggcat gtccagtcac taggagctgc caccggtggg 180
cttgagtgcc aggctctagg ctttgtgcag aaagcaccgc gggcgggggg cggtaaggga 240
gagcaaaatg ggtctctctc aactgcagtc agtgctcctg ggaacacggg ctcacagaca 300
gcacatatcc tacgtcacag ctctaggggt tcaaggactt agccatccga cagg 354

```

<210> 837

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 282

<223> n = A,T,C or G

<400> 837

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ctgaaaatga aggtaattaa aaccatggag gcgatcagcg aggttctcca ggaccttagg 60
tttgatgcgg aatctgccga gtgatggcgg ctccccaggg atgcgcgcag ggagatggga 120
aacggggcgg atggcgccca gccagccct aactgccagc cacattgaag cggacattgg 180
caaccgggtc cccagccatg cgcagaaccg tgggtagcat gtgcttggtg gtgatgtcct 240
gccacagagc ctcagacggc acattgatgc agaagagcgt antcatgcgg tgcaggtagt 300
tgggggtctcc ggacatgg 318

```

<210> 838

<211> 277

<212> DNA

<213> Homo sapiens

<400> 838

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ctgcgcgtcg ccaaagtgaac agggcgtgcg gcctccaagc tctctaagat ccgagtcgtc 60
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aaattctaca agggcaagaa gtacaagccc ctggacctgc ggcctaagaa ggcacgtgcc 180
atgcgcgcgc ggctcaacaa gcacgaggag aacctgaaga ccaagaagca gcagcggaag 240
gagcggctgt acccgctgcg gaagtacgcg gtcaagg 277

```

<210> 839

<211> 276

<212> DNA

<213> Homo sapiens

<400> 839

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ggctctcagg aaatatgttc tccacgggta gtgggaacac ttatgcctac ggggtcatgg 240
acagtggcta tcggcctaata cttagccctg aagagg                                     276
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<210> 840

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 387

<223> n = A,T,C or G

<400> 840

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taacaaaaga catgactggg aaagaagaca actaccgggg cccggccgtg cgagccctct 180
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gcagctttga cgtgggtcaag cgtgggtga atgaggctca ggaggcagca tccagtata 360
acatcatggt ccagtaccac gcactanggc tcctgtacca tgtgcgtaag aatgaccgcc 420
tagccgtcaa taagatgatc agcaaggctg cac                                     453
```

<210> 841

<211> 142

<212> DNA

<213> Homo sapiens

<400> 841

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gtcagagttg cttcgatggt gg                                     142
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<210> 842

<211> 83

<212> DNA

<213> Homo sapiens

<400> 842

```
cctaaaagca gccaccaatt aagaaagcgt tcaagctcaa caccactac ctaaaaaatc 60
ccaaacatat aactgaactc ccc                                     83
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<210> 843

<211> 482

<212> DNA

<213> Homo sapiens

<400> 843

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tgacttcttc tgtcaggagg actggtttcc agccatacct gttctggaag ggagaggggc 180
tgagggcacc cacaggcaca agctgaaggc agcagcttgg ctaatactga gcaggtagtg 240
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ctggtaaagc cctcctctt ggcacctcag aatcacagtg tiactgatca gggatgtgag 360
gctgctgttg ggggtggggg gaggggaatg ggcaggcaag ccagtcttct gtcttccttt 420
gctaacttag ggttttgagc aggttggggg tatggtgcct gtcataccca cctgccaccc 480
tg 482

```

<210> 844

<211> 534

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 495, 508

<223> n = A,T,C or G

<400> 844

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aagcaaagct tccaggaagc tcgggatgag ctagttgaat tccaggaagg aagcagagaa 120
ttagaagcag agttggaggc acaattagta caggctgaac aaagaaatag agacttgag 180
gctgataacc aaagactgaa atatgaagcg gaggcattaa aggagaagct agagcatcaa 240
tatgcacaga gctataagca ggtctcagtg ttagaagatg atttaagtca gactcggggc 300
attaaggagc agttgcataa gtatgtgaga gagctggagc aggccaacga cgacctggag 360
cgagccaaaa gggcaacaat agtttctact gaagactttt gaacaaaggc taaaccaggc 420
cattgaacga aatgcatttt tagaaagttg aacttgatga aaaaggaatc tttgttggtc 480
tctgtacaga ggttnaagga tgaagcanga gatttaaggc aagaactagc agtt 534

```

<210> 845

<211> 175

<212> DNA

<213> Homo sapiens

<400> 845

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tcgacctgtg gcaaagtgtg ctaccctgcc aagcgcaaga gaaagtataa ctggagtgcc 60
aaggctaaaa gacgaaatac caccggaact ggtcggatga ggcacctaaa aattgtatac 120
cgcagattca ggcattgatt ccgtgaagga acaacaccta aacccaagag ggcag 175

```

<210> 846

<211> 179

<212> DNA

<213> Homo sapiens

<400> 846

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cgcgtggaca gttgcgaggg gtctgtgtga aggcacttgt cacgagcttc aatactgccg 60
ccgtcccagg atgggagaac tgcgcagcag gaagggcact tctgaaagca cagtggagag 120
atcgtctggag cgggcgttct gggcaggagg aagcacagac ggcaggcagg gtggactgg 179

```

<210> 847

<211> 410

<212> DNA

<213> Homo sapiens

<400> 847

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ggatggagac tcccagggat tttttaacct ggccctgcta atcgaggaag gtacgataat 120
cccacaccat atcttgatt tcttgaaaat tgactcaact ctccattcta ataacatctc 180
cattctccag gaactgtacg aaaggtgctg gagccacagt aacgaggagt ccttcagccc 240
ctgctccttg gcctggcctt acctgcactt ggggttctc tggggtgcta tcctgcactc 300
agccctgac taccttcttg gaacctttct gctatccata ttgatcgctt ggactgtgca 360
gtatttccag tctgtctcag caagcgatcc cctccaaga ccatcccagg 410
```

<210> 848

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 508

<223> n = A,T,C or G

<400> 848

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gcagcctcca cacctaccac gacctcccag ggctgggctc aggaaaaacc agccactgct 180
ttacaggaca gggggttgaa gctgagcccc gcctcacacc caccctcatg cactcaaaga 240
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aactctaaaa gatagacatc agaaattggt aagttaagct ttttcaaaaa accagcaatt 360
ccccagcgta gtcaagggtg gacactgcac gctctggcat gatgggatgg cgaccgggca 420
agctttcttc ctcgagatgc tctgctgctt gagagctatt gctttgttaa gatataaaaa 480
ggggtttctt tttgtcttct tgtaaggngg acttccagct tttgattgaa agtcctaggg 540
tgattctatt tctgctg 557
```

<210> 849

<211> 525

<212> DNA

<213> Homo sapiens

<400> 849

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ctgatgggtt ggaaatgaga gaactacagt ggtgaagaga ccaggaggca gctctcagtg 60
aaaccaacat tgcggatgcc ctctgtgagc ctctcagtc ccagcaggaa gccacaaca 120
ctggcctccc cagcctgcct gctgacaaca cctaggctta ctttatctaa aatcagagtg 180
taccaggctc tagcagaaaa ataatcaact aaatgtcagg gacctatgag tcatttaaaa 240
caaaagagga agtgaaagcc attaggcaag ctatgtgctg ggctgctaac gtagcccttg 300
cagggagggg tcaggagcgc gctgcagtga gccttgggtc tcgcaggccc agccctgctg 360
caaggagcca gggcacccag gaaacatcag cacacacaca cacagggacc ctcccttcat 420
gtcacttggt ttgctgccct aaatggcttc ttgcacccta acccctgac ctggaagaag 480
gcagagagac tggcccgtac agagacctgc aattctacgc aagct 525
```

<210> 850

<211> 384

<212> DNA

<213> Homo sapiens

<400> 850
 cctcttggag cacatccttt actgcattgt ggacagcgag tgtaagtcaa gggatgtgct 60
 ccagagttac tttgacctcc tgggggagct gatgaagttc aacgttgatg cattcaagag 120
 attcaataaa tatatcaaca ccgatgcaaa gttccaggta ttcttgaagc agatcaacag 180
 ctccctgggtg gactccaaca tgctgggtgcg ctgtgtcact ctgtccctgg accgatttga 240
 aaaccagggtg gatatgaaag ttgccgaggt actgtctgaa tgccgcctgc tcgcctacat 300
 atcccagggtg cccacgcaga tgtccttcct cttccgcctc atcaacatca tccacgtgca 360
 gacgctgacc caggagaacg tcag 384

<210> 851
 <211> 423
 <212> DNA
 <213> Homo sapiens

<400> 851
 ctcaggaaaa accagccact gctttacagg acaggggggtt gaagctgagc cccgcctcac 60
 acccaccccc atgcactcaa agattggatt ttacagctac ttgcaattca aaattcagaa 120
 gaataaaaaa tgggaacata cagaactcta aaagatagac atcagaaatt gttaagttaa 180
 gctttttcaa aagatcagca attccccagc gtagtcaagg gtggacactg cacgctctgg 240
 catgatggga tggcgaccgg gcaagctttc ttctctgaga tgctctgctg cttgagagct 300
 attgctttgt taagatataa aaaggggttt ctttttgtcc ttctgtaagg tggacttcca 360
 gcttttgatt gaaagtccta gggtgattct atttctgctg tgatttatct gctgaaagct 420
 cag 423

<210> 852
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 852
 ctgaaaacag tgggaggcca gatgctggca tcttccagac gggagcatag ccatggtcac 60
 tctagccgat gtctcctggg gctctcaggc ggcaaggacc agatgcacca ctactgtcca 120
 atcccagttt tacttagagc cacctccttt tttggggcca ttagtcctta tttcatgcca 180
 gatttttact agcggctccc tgttcttcca aatcaattca tgaccgtaag taacatacca 240
 tattccaaaa agagctcccc caagatgtgc cgcgatgaca aaaaatttcc atcccaggat 300
 cattcctgct gtatccatgg cgataatggc tttcagggca ttccctgctg tgaacgtgaa 360
 catcggaagg aaaataatgg caagcctccc ttctgggacg ttagtgacag cag 413

<210> 853
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 853
 atctgtgagt tctgagaggc atttaggcca tgggacaggg aggatcctgt ctggccttca 60
 gtttccatcc ccaggatcca cttgggtctgt gagatgctag aactcccttt caacagaatt 120
 cacttggtggc tattagagct ggaggcacc ttagccactt cattcccttg atgggacctg 180
 actcttcccc ataactactg accagccttg aactccctt tgcaaaccat cccagcactg 240
 caccacaggc agccactcct agccttgagg tttggcatga gatggggg 288

<210> 854
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 854
 ccaagtgaga tcagccctca agggcacatg ccaagggcag agcagcccat gtagacagct 60
 tcggagggca tgggggtgta gggagttcgg ggtagctcct cattaactat ttgttgggtg 120
 agtaaaaggg tgaggctcag tggcaggtag ctctgcaatg acaagctgcc tcccctctat 180
 gtgttttagca tatgttatta gaacgtgtcc gacaccccta ccgctgccat ttggggccctt 240
 taataaagcc aagtagagaa atctggcaat aaaaggcaaa tgtaagcatg ctttctttaa 300
 gacgcatcat aaatggtttt ctttaagtga atggaagagt ttgacagaga tacacotttg 360
 taagaaaaca ttaagaatgc tggctgactg tggtaggtca cacctgtatt ccagcactt 420
 tgggagg 427

<210> 855
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 855
 ccagtattcc tggaggatat aacactgaca tcagcagggt tttcaatggc aacaattgca 60
 cgagctgcca gcagaagctt ctcccagggt ctcttgagat ttatgatata gatgccatca 120
 ctttcccttt tatagatgta ctgttccatc tgggaagtcaa gattgggtgcc acctaaagtg 180
 gttcctgctg caaggaactt aaggacatcc tcttccttca tttgcaggac atcaagggtc 240
 ccggacattg tgaaagtgtc cctttaagtt acgacgggaa tccagaacaa cgccgtatgg 300
 acccctctgc a 311

<210> 856
 <211> 328
 <212> DNA
 <213> Homo sapiens

<400> 856
 cctatggaag tttggtgctt tgctccctgt gtttgcgaaa caggatatctc gtgatttcag 60
 aaaagcttga ggagattaag tctttccggg agctgacctg cctggatctt tctgttgca 120
 agcttggaag tgagcatgaa cttctagaac atctcaccac tgaagccctg tctagtgtaa 180
 ctgagctcca cctgaaggat aattgtctat ctgagctggg ggtgcggaag atgacagcac 240
 cagttcgagt gatgaaaaga ggtatccaat gcctgcatct gtgatctcag ggttacatga 300
 taagtctaata aatgttagat tctcaagg 328

<210> 857
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 473
 <223> n = A,T,C or G

<400> 857
 ctgaccggac cggatcatgcc cgtccggaac gtctataaga aggagaaagc tcgagtcac 60
 actgaggaag agaagaattt caaagccttc gctagtctcc gtatggcccg tgccaacgcc 120
 cggctcttcg gcatacgggc aaaaagagcc aagggaagccg cagaacagga tggtgaaaag 180
 aaaaaataaa gccctccttg ggacttgga tcaagtggca gtcagctctg gtctccacgt 240
 ggtgtgtttc gtgggaacaa ctgggccttg gatggggctt cactgctgtg acttccctct 300
 gccaggggat ttggggcttt cttgaaagac agtccaagcc ctggataatg ctttactttc 360

```
tgtgttgaag cactgttggt tgtttggtta gtgactgatg taaaacgggt ttcttgtggg 420
gaggttacag aggctgactt cagagtggac ttgtgttttt tcttttttaa gangtaaggt 480
tggtgtggtg ctcacagacc tc 502
```

```
<210> 858
<211> 411
<212> DNA
<213> Homo sapiens
```

```
<400> 858
cggccgaggt ccttaatagt taagttacag ctaagaatgt catgtcttgg gttggaattt 60
tcatttttag caccgttaat gtattcactt aaatctatgt tagcaccttg tctccaggca 120
gaacaacaaa ccatccaaac attttaaaca ttgggggaaa cacgaagggg aggggttaaag 180
acagaatcca gtactgtgga aggagtggat ttagatcaca agatccttgt cgatatcctt 240
ctgcttgatg ccgaagcagc cggccactc atccagggcg atgtacttgt cattgtccag 300
gtcacaggtc tcgaaaaagc ggggtggtgca atgctccatg gggatgaggg gagcacgcag 360
tgagagccag tcggtgtggg agaggtaccc gtcaatgggg tgctggtcca g 411
```

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<210> 859
<211> 232
<212> DNA
<213> Homo sapiens
```

```
<400> 859
aatcacaga gggacttagt attccattaa tgcaaatgga aacattaagt tcatcatcag 60
atgataaaa gaaaaaaaaa acctgatact catctcaaaa gacgcagaga agacatctgc 120
ataaatccag tacctattat tatttcaaat ttaaaaactt cttctttttt aagagatagg 180
gtatcactat gttgcccagg ctgatcttga actcttggcc tcagatgatc ct 232
```

```
<210> 860
<211> 235
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 230
<223> n = A,T,C or G
```

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<400> 860
tgcccagaaa ggaaggggct attgcctcct cccagccagc ttccctttcc tcctctccct 60
cctgtggatt ctcccatcag ccattctggt ctctctttaa ggccagttga agatgggtccc 120
ttacagcttc ccaagttagg ttagtgatgt gaaatgtccc tgtccctggc cctacctcct 180
tcctgtccc caccctgca taaggcagtt gttggttttc ttccccaatn ctttt 235
```

```
<210> 861
<211> 457
<212> DNA
<213> Homo sapiens
```

```
<400> 861
ccaaaggaaa gttggaaggc aactgacaga ttctgccttt taggtacttg aactggcagg 60
aatgcatca aaagacttaa aggtaaagcg tattaccctt cgtaacttgc aacttgctat 120
tcgtggagat gaagaattgg attctctcat caaggetaca attgctggtg gtggtatggt 180
```

```

aacttctaac attttaaaaa atttcttcag aggaaggaat tttttgctgc ttttaattag 240
tttttccagg agaggaaatt taagtatat ttcaatgatg gaagtatggg tgtatcatga 300
aatTTgattt atatgtataa ctcaatgaat ttttacctca tacttgagct gcatgttttt 360
aaagatacct ttcaagttga acagtataca ctttcttggg ttcaaatact gtgatttttt 420
aaaaaatcct aagtagaatt aattcctgtc actcccc 457

```

<210> 862

<211> 561

<212> DNA

<213> Homo sapiens

<400> 862

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ccaggtcatc accattggca atgagcgggt cgggtgtccg gaggcgctgt tccagccttc 60
cttctggggg atggaatcct gggcatcca cgagaccacc ttcaactcca tcatgaagtg 120
tgacgtggac atccgcaaag acctgtacgc caacacgggt ctgtcgggcg gcaccacat 180
gtatccgggc attgccgaca ggatgcagaa ggagatcacc gccctggcgc ccagcaccat 240
gaagatcaag atcatcgcac cccagagcgc caagtactcg gtgtggatcg gtggctccat 300
cctggcctca ctgtccacct tccagcagat gtggattagc aagcaggagt acgacgagtc 360
gggcccctcc atcgtccacc gcaaattgctt ctaaaccggac tcagcagatg cgtagcattt 420
gctgcatggg ttaattgaga atagaaattt gcccctggca aatgcacaca cctcatgcta 480
gcctcacgaa actggaataa gccctcgaaa agaaattgtc cttgaagctt gtatctgata 540
tcagcactgg attgtagaac t 561

```

<210> 863

<211> 291

<212> DNA

<213> Homo sapiens

<400> 863

```

ccatagctgt cccacctatg gttttaaaaa cagactgtaa cttgatcttc tgaaatcctt 60
ctcgaaccac aactcgttct gttaaagaaa tcctaggaaa gaagtcctac tgatattgtc 120
gatagtctcc aaaagggtgag gaaggtaact gagttgaagg caactgggag gggctctctg 180
caaactgagg accattggaa aactgtgcag aggcaaactt tgtcaacaag ataccagctc 240
cttcaattaa agctaggaga atgccaccca ttgoggctga cccaacctg g 291

```

<210> 864

<211> 265

<212> DNA

<213> Homo sapiens

<400> 864

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ctgaactttt ccacctggag tccttgggaa taccggacgt gatcttcttt tataggtcca 60
atgatgtgac ccagtcctgc agttctggga gatcaaccac catccgcgtc aggtgcagtc 120
cacagaaaac tgtccctgga ggtttgcgtc tgccaggaaac gtgctcagat gggacctgtg 180
atggctgcaa cttccacttc ctgtgggaga gcgcggctgc ttgcccgctc tgctcagtgg 240
ctgactacca tgctatcgtc agcag 265

```

<210> 865

<211> 144

<212> DNA

<213> Homo sapiens

<400> 865

```

cctccacctg cgttttgatc tagatgagca tattgtccat ctcccacagc ttgctccggg 60

```

tccgcaggta cgcccgcccg tgctcgcgcg tcagcgacgc gatgtcctcg cgcatctcgt 120
tgatgaccgg gagcagaaac tgct 144

<210> 866
<211> 241
<212> DNA
<213> Homo sapiens

<400> 866
ctggctgtaa gtagcttcat agcaccagtc tttgagaatg tcaagctctc cagaaatcat 60
ggcctccagg acattgggga tgatgtcggt ctgcactgt ttcagaaacc ggtccttgtc 120
aaaggccggg tccaccggga ggatctcgt gagcacctcc gacatctctg tcttgagaa 180
caggccccc agcaagtcgg tgacctgtgc cgtaagggcc cgggatgcc ggatgaacgc 240
g 241

<210> 867
<211> 364
<212> DNA
<213> Homo sapiens

<400> 867
cctgggcccc ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
ttatttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
ggctcactgc aacctctgcc tcttgggctg cagtgattct cctgcgttca agtaattctc 180
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
ttcgtatttt tagtagaaat ggggtttcac catgttggcg aggctggctc cgaactcctg 300
acctcaagga tcctcctgcc tcggcctcct aagggtgctg gattgcaggt gtgagccacc 360
acgt 364

<210> 868
<211> 472
<212> DNA
<213> Homo sapiens

<400> 868
ccaccagtc acagatgtga ctggtaaggg atctagtaac agaggatgga gttgggcaga 60
atattatcct ggatgatatg caccagcac taggatacac ctttcattag aatgaagaga 120
acagacaaag ccctcagaaa agatacaaa gacagagacat tgattagaac attatctcat 180
aacagagggtg gggccattac ccaccattat tgtaaaataa ctgtaactaa ccaaaacaca 240
tacaggcttc tttaatggag ttaataaaac tatggcacat tgggaatcag gggcagaggt 300
actgttccca gacggaaaac tgggataaa ggagccatgc tgacagggcc ttattccagt 360
ctaggttggt agaaaggagc cctagcccag aaatgacagc aaatagccat aatcattatg 420
tggggctgaa ccagaggaag ccaggctgag ccaagaagct ggaagtatct tg 472

<210> 869
<211> 368
<212> DNA
<213> Homo sapiens

<400> 869
cctttcttgt aagtgaagaa aaaggaatgc agcaaagaag agttcgacat tggagtcctt 60
agttccatca ggatcccatt cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120
gctgagatag gtgcaatgac ctacaagatt ttgtgttttc tagctgtcca ggaaaagcca 180
tcttcagtct tgctgacagt caaagagcaa gtgaaaccat ttccagccta aactacataa 240

aagcagccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgccc 300
 aaactcattg tgacttttta ttttatatac aggattaaaa tcaacattaa atcatcttat 360
 ttacatgg 368

<210> 870

<211> 411

<212> DNA

<213> Homo sapiens

<400> 870

ggcgtgtcct tggacttaga gagtggggac gtcgggcttc ggagcgggag tgttcgttgt 60
 gccagcgact aaaaagagaa tttaatattg gtgatgttga gaaaggcaag aagattttta 120
 ttatgaagtg ttcccagtg caccocgttg aaaagggagg caagcacaag actgggcca 180
 atctccatgg tctctttggg cgggagacag gtcaggcccc tggatactct tacacagccg 240
 ccaataagaa caaaggcatc atctggggag aggatacact gatggagtat ttggagaatc 300
 ccaagaagta catccctgga acaaaaatga tctttgtcgg cattaagaag aaggagaaga 360
 gggcagactt aatagcttat ctcaaaaaag ctactaatga gtaataattg g 411

<210> 871

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 13, 14, 15, 27, 108, 113, 159, 199, 215, 221, 229, 245, 258,
 260, 277, 284, 293, 309, 311, 325, 339, 350, 374, 377

<223> n = A,T,C or G

<400> 871

tttttttttt ttnnnntttt ttttttnaaa gattcacttt atttattcat tctcctccaa 60
 cattagcata attaaagcca aggaggagga ggggggggtga ggtgaaanat ganctggagg 120
 accgcaatag gggtaggtcc cctgtggaaa aagggtcana ggccaaagga tgggaggggg 180
 tcaggctgga actgagganc aggtgggggc acttntccct ntaacactnt cccctgttga 240
 agctntttgt gacgggcnan ctcaggccct gatgggngac ttcncaggcg tanactttgt 300
 gtttctcgna ntctgctttg ctcancgtca ggggtgctgnt gaggtgtgan ggtgctgtcc 360
 ttgctgtcct gctntgngac actct 385

<210> 872

<211> 184

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 17

<223> n = A,T,C or G

<400> 872

cttccttcgg tcttttantat ttttgattgt tatgtaaaac tcgcttttat tttaatattg 60
 atgtcagtat ttcaactgct gtaaaattat aaacttttat acttgggtaa gtccccccagg 120
 ggcgagttcc tcgctctggg atgcaggcat gcttctcacc gtgcagagct gcacttggcc 180
 tcag 184

<210> 873
 <211> 397
 <212> DNA
 <213> Homo sapiens

<400> 873
 ctgtgggctc tgaatggcgt ccccttggct atccacgccg ccggcgacca ctgaattctg 60
 tggttctaca acagggctctg gctgaccgaa ttgtcagaga cgtccaggaa ttcacgata 120
 accccaagtg gtacactgac agaggcattc cttacagacg tggctacctg ctttatgggc 180
 cccctggttg cggaagagac agttttatca cagccctggc tggggaactg gagcacagca 240
 tctgcctgct gagcctcagc gactccagcc tctctgatga ccgactcaac cacctgctga 300
 gcgtggcccc gcagcagagc ctgggtactcc tggaggatgt ggatgctgct tttctcagtc 360
 gagacttggc tgtggagaac ccagtaaagt accaagg 397

<210> 874
 <211> 156
 <212> DNA
 <213> Homo sapiens

<400> 874
 ccagaagaac actatgccat ggttgcactg aattttgtgc ctactctagg gcaaacagaa 60
 ttacaatcga aggagttcct atctatctgt aaagaagaga acatgaaatt ctgttggcag 120
 aagcagcatt ttgaagaaat aaaaggttca ctgcag 156

<210> 875
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 504
 <223> n = A,T,C or G

<400> 875
 ccagcatagc gaaaacttgt ctctactaaa aatacaaaaa ttagtcaggc atggtggtgc 60
 acgtctgtaa taccagcttc tcaggaggct gaggcacgag gatcacttga acccaggagg 120
 aggaggttgc agtgagctga gatcatgcc a gggcaacaga atgagacttt gtttaaaaaa 180
 aaaaaaagtg acttgattta agggaaaaaa tgactggcta tattcagtca gatatggcaa 240
 agagtctcaa ggtgttaatg tgaatgatta aggtcttggg gggggtgtcc cctatcagac 300
 tacaggtgtt tagaggcaca gaaaaagggtg cagtggggtt cttaatgtga aatgatgaga 360
 agcacaactc cagtgtgtct ctttgtgtag aatgtcagca gacacccct gctagatgtg 420
 ctggatcatg ggaaagcatt tccatttgtt aatagattgt tcagaagttt taatttatga 480
 tgggtgtggt ggctcatgcc tgtngtccca gc 512

<210> 876
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 876
 cctgtgccgg gccccagggc tggcagccac cagctcctct tccaggcatg ggggacaccc 60
 tgacaggatc cggaagtctc catttaccca aaaatgcaag agccatgatc agtcatggcg 120
 aactgcagg cggtactgag tgaccatgtc cagtccggct ccgtccctcc cacacggggg 180

acaagcttct ccgaggagg

199

<210> 877

<211> 486

<212> DNA

<213> Homo sapiens

<400> 877

```

cgcgtgtgct gctcccttct gccaggagcc cactgctttt gcacacaagc tgcattttgc 60
gcattgactc aggtcccagt tgctcttcat atctccgtga atgattggag tgcaaagata 120
ctgttctgag cgcttcccgt tttctgaaag ccatgtctct caggcatgcc tcgcttagtt 180
ggcgatgggg ttggttgact gttttcgctt ttttcttctt ctcttttctt cttcttcttc 240
tttttttttc ttttcttttt ctccccctcc caacgccact gacaagaaag cactaaagat 300
gcaggttggt cgatcacctc ataacataag gaaaagaaca ggagaggta atttgaacgt 360
gtaggctagt ggtagaggga gatggaggtc tggggaaaga gtctgtcagg tagacatctc 420
ttttaacatg tcccagtatt cggttcacca gtatctctgc acctcactac tacccttcac 480
tccttg                                           486

```

<210> 878

<211> 363

<212> DNA

<213> Homo sapiens

<400> 878

```

cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
ttactgagat ggagtcttgc tctgtcacc aggctggagt gcagtgggtc aatctcggct 120
cactgcaacc tctgcctcct gggctgcagt gattctcctg cgttcaagta attctcctgc 180
ctcggccttc tgagtagttg ggattacagg catatgccac cacacttggc taatttttgt 240
atttttagta gaaatggggt ttcacatgt tggcgaggct ggtctcgaac tcctgacctc 300
aaggatcctc ctgcctcggc ctccctaagg gctgggattg cagggtgtgag ccaccacgtc 360
tgg                                           363

```

<210> 879

<211> 365

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 357

<223> n = A,T,C or G

<400> 879

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gcccattgcca gcgtgtgggt agcaogcaca acttgtgggt gctgtccttc ctgaggaggt 60
ggaatgggag cacagccatc acagacgata ccctgggtgg cactctcacc attacgtgtc 120
ggaatctaca accccatgat gcgggtctct accagtgcc gagcctccat ggcagtggag 180
ctgacacctc caggaaggct ctgggtggag tgctggcaga cccctggat caccggaatg 240
ctggagatct ctggttcccc ggggagtcct agagcttcga ggatgccc atggagcaca 300
gcatctccag gagcctcttg gaaggagaaa tccccttccc acccacttcc atccttntcc 360
tcctg                                           365

```

<210> 880

<211> 431

<212> DNA

<213> Homo sapiens

<400> 880

```
ccatctcccc tcacccaac ctggataaaa tgttacacta ccactaata taaccactga 60
cacacaaacc aagctccttc cagtttaaca ttgaacatca atctacattt ccagtgaatg 120
agctaaactt atgagcaggc cattcaactt ttcattgatac atttagtgct cagaaatggg 180
tgattccatt agcctgcctt atagctcagg tggccaaga tggagcctat catcttcctt 240
ggggtgtttg gtgtttccaa gtaggagcat aaaaaggata ccgtccccta ccccaaccacc 300
ccatcccaca taccctcact ggcattccagg agaccagcag caggctcaag accccaaatg 360
ttgggcacca caaataatgt gatatgtgcc aggagcacgg ggggtagggg tgaaagagaa 420
aaacaataag g                                     431
```

<210> 881

<211> 335

<212> DNA

<213> Homo sapiens

<400> 881

```
ccacagaggt ggtattacaa aatatacaaa gtggtttctt tctttacatt tcatagaaga 60
agcctgcctc atttccaaat gagagcaacta gaagcacaac tcatgcagac catttactat 120
ataacttatg aaaaatgctg tacagggctg tgactataga tatagagtat ttggctctgt 180
ttgggaattg atatctacaa gggggagggt caggggagga ctgtctgata tcttgacttg 240
ctgggatggg ggagaagctg ggatggggga ggcccaatc ttgctgcacg gctacacca 300
ctcctccttt cctagataag gctggagcgc actgg                                     335
```

<210> 882

<211> 353

<212> DNA

<213> Homo sapiens

<400> 882

```
atgcactcaa agattggatt ttacagctac ttgcaattca aaattcagaa gaataaaaaa 60
tggaacata cagaactcta aaagatagac atcagaaatt gtaagttaa gctttttcaa 120
aaaatcagca attccccagc gtagtcaagg gtggacactg cacgctctgg catgatggga 180
tggcgaccgg gcaagctttc ttctctgaga tgctctgctg cttgagagct attgctttgt 240
taagatataa aaaggggttt ctttttgtct ttctgtaagg tggacttcca gcttttgatt 300
gaaagtccca ggtgattct atttctgctg tgatttatct gctgaaagct cag                                     353
```

<210> 883

<211> 193

<212> DNA

<213> Homo sapiens

<400> 883

```
ctggcagaga agaatggcta cgtgactgtc agtgagatca aagccagtct taaatgggag 60
accgagcgag cgcggaagt gccggaacac ctgctgaagg aaggggtggc gtggctggac 120
ttacaggccc caggggaggc ccactactgg ctgccagctc tcttactga ccttactcc 180
caggagatta cag                                     193
```

<210> 884

<211> 461

<212> DNA

<213> Homo sapiens

<400> 884
 ctgaagaacc ccatcagcgg gctgttagaa tatgccagct tcgctagtca aacctgtgag 60
 ttcaacatga tagagcagag tggaccaccc catgaacctc ggtaagagac caccaggaa 120
 ctgtacctag ggttgggggc aggtgctttt gctcctgacg cagtcttggc tgatttgtga 180
 gcagtgtgtt ttggtggcgc ctatcttttc ctcttccct tctgcctttt agctaaattc 240
 cccttgattg gcccttttctc cagatattga gcagggaata tagaccttgg accagccaga 300
 atcttggctg aacaaggggg aggttgactc tgttggctgt aatgaagctt ctttagaaat 360
 gattggtttt ggccgtacgc ggtggctcat gcctgtaatc ccagcacttt ttgaggccga 420
 ggcaggcata tcacgaggtc aggagtttga gaccagcctg g 461

<210> 885

<211> 266

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 14

<223> n = A,T,C or G

<400> 885
 ctgcaatgct tcancacact tcagcaccga ggctgggcat gaggggtccg tcaccaccac 60
 atcaaatacc cctaaagcaa tatctttgtt atgggcactt gaatggtgct gcttcacaga 120
 ggctgcacca ccagtcatga ggatctcaga ccagagctcc aggaagttct gctgttggtc 180
 tgataccaag agtaccttca gattctggaa aggattttca cggggttgcc agtccagaat 240
 tctttgctcc tcaaggctgt acccag 266

<210> 886

<211> 402

<212> DNA

<213> Homo sapiens

<400> 886
 cgcgtgggtt ccgattgttt gatagtattt actggagaga tcatagaaac gactgtgaac 60
 cgatgtcaca ccaggaaggt tgttgagcat ttcttcaaca tcttcaattg tttcctttgt 120
 aacctgtagg tccccgatgt ttaatttttag agctccaatt gctgttttac acaggatcac 180
 tgcctcatca ttacttttca ctttctcacg agtcttttcc agaaaagtaa gagccacatt 240
 aggatcagtc atctgtctaa ctacatgaag aatgatttcc acgagggaca aagggttcac 300
 cctgtgttca aattcactga taaagttttc ataaagctta atgagaccat ctcttggggc 360
 aaagcacgga tcctgcacaa aatcaagcac ctgaagtgtc ag 402

<210> 887

<211> 342

<212> DNA

<213> Homo sapiens

<400> 887
 ccaaagcgag agcattggca gtgaattgca gacactcttc cttgggtcatg ccttcccggg 60
 aggtagcatc aacatagcca tagatgtagg agctcccggg gctccaatg gcaaaggact 120
 gccttaccat catacccccc ataggcactg agtacacctg ccctccttct tgagggtccc 180
 agcctgcgat gatgattccc gccatcaggt cttcccggta tcggtaacac atctccttaa 240
 agaggctggc tgctgtgtgg accagtggag gctcattcag ttcaatgctg tggaaaccga 300
 gctggtaggt gacagcatca gctactgcct ggggtatcagc ag 342

<210> 888
 <211> 228
 <212> DNA
 <213> Homo sapiens

<400> 888
 cgcgtcggcc aaggctgctg ctgttgctcc tccaaagaag gttggcttca aggccgtgtc 60
 cagggacca cgagcagagg cactgggggg caagggatct ccaagggggc aagggatccc 120
 taaaggggt agctcacagg tgaggggggt tagggcccct ctagggagcg cctgaggcca 180
 tacattcaag agtgtccctg gtgaggcca ggaagagcc aggactgg 228

<210> 889
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 889
 ttggcttttc tccccttctc atcctcctct cccctttcct cactgaaggc tgtgagttgc 60
 tttcaatgtg acaacactat gatgtcattt ggaaggattt gccaggacag actgattctg 120
 agtcctgggt gccgtatgtg tatgcggcag tgttgctcagg cgatcttggt tgaagctcta 180
 tgttgccata attaccatca agtacacact gttggcaaaa ggctaacacc tgacttttagg 240
 aaatgctgat ttgagaacaa aaggaaagggt cttttttcac tgcttaaagt ggggtcactt 300
 tgataccttt gcggtcatgt ctgtgtctga tgagtgtaga atctctggat gtgcactgtc 360
 agtcatgtgt ccaccagg 378

<210> 890
 <211> 215
 <212> DNA
 <213> Homo sapiens

<400> 890
 ccatttttga gtgtgtccat tgggtagcaa tgtggaaacc accagggcct ttgtggagaa 60
 aatggagggg gttgaggag tcccaggagg ggcttatttg agggcctttg ccacttgctc 120
 ataggcgagc tcgatctcct catcatctgg acaggtggaa gcgaattctt cccgggcgta 180
 ggcattgctc aagtaccgat gcaactcccc gaagg 215

<210> 891
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 891
 ctggtcaagt tcaacagagc cttggctgac cattctatgg ctcaggcacc tcggttcatt 60
 gatggcattg ttcttacc aaattgatacc attgatgaca aggtgggagc tgctatttct 120
 atgacgtaca tcacaagcaa acccatcgctc tttgtgggca ccggccagac ctactgtgac 180
 ctacgcagcc tcaatgcaa ggctgtggtg gctgccctca tgaaggctta acgtggctct 240
 tgcccaatac caaatcgccg ctttccccac aagcccttct tcctgtatca agaattgtgct 300
 ttagagtatg tgagcaacct gtcttcagt tagtaciaaag gcagagttag ggggcttgtg 360
 gctccttcca accccactcc ccgttcagca cagccgccat ctgcaaggaa gg 412

<210> 892
 <211> 472
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 85, 169, 171, 181, 201
 <223> n = A,T,C or G

<400> 892
 tttttttttt tttttttttt ttaattacta cctttttattc taatgtgaac catggcoctg 60
 aaagctgata acaagcttgg ctgancagag ggaactaggg gtcggcagaa aggattatgg 120
 gtggaaaaca ttggctcttc cttggggagt gatgctgggg aaaggaana nagtggtcca 180
 ncctgcaggt aaataggcta naaaagccaa ggccaaaggc tggaggggag aggacagtca 240
 gcatgtccag cctgggggtct ggggtgtaggg ttatcccttc tccctgtgcc ttcccatctc 300
 gtccatgagc ctagggtcttg gagccttgtg ttggaggctg ctgtgatgtc aggaacgggg 360
 atctgtctag cttttggcca cttcctggga cctcacgcc ctgttgacag atggagattg 420
 ggcagcaggg ccttgctgcg ttgttatctg ctgttccgac ttggtttgtc tt 472

<210> 893
 <211> 477
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 436, 447, 449
 <223> n = A,T,C or G

<400> 893
 caaagattca ctttatttat tcattctcct ccaacattag cataattaaa gccaaaggagg 60
 aggagggggg tgagggtgaaa gatgagctgg aggaccgcaa taggggtagg tccctgtgtg 120
 aaaaagggtc agaggccaaa ggatgggagg gggtcaggct ggaactgagg agcagggtgg 180
 ggcacttctc cctctaacac tctccctgt tgaagctctt tgtgacgggc gagctcaggc 240
 cctgatgggt gacttcgcag gcgtagactt tgtgtttctc gtagtctgct ttgctcagcg 300
 tcagggtgct gctgaggctg taggtgctgt ccttgctgtc ctgctctgtg aactctcct 360
 gggagttacc cgattggagg gcgttatcca ccttccactg tactttggcc tctctgggat 420
 agaagttatt cagcangcac acaacanang cagtttccag atttcaactg ctcacatca 477

<210> 894
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 894
 ctgtcttatg gctatgatga gaaatcaacc ggaggaattt ccgtgcctgg ccccatgggt 60
 ccctctggtc ctcggtggtc cctgggccc cctgggtgcac ctgggtccca aggcttccaa 120
 ggtccccctg gtgagcctgg cgagcctgga gcttcaggtc ccattgggtcc ccgaggtccc 180
 ccaggtcccc ctggaaagaa tggagatgat ggggaagctg gaaaacctgg tcgtcctggg 240
 gagcgtgggc ctctctgggc tcagagtgtc cgaggattgc ccggaacag 289

<210> 895
 <211> 179
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> 14
 <223> n = A,T,C or G

<400> 895
 ctggatgggt ccanacaaag tggaatccct ggaaccttta actgagcagt gaaggtcagt 60
 gcctcagagc ctgagagatg aacaggacca gagagagagg tgggcaggca ggcacaaggt 120
 tatgtcttcc tcagactcgg aaccctgctc ttctccacca tccagacgtt cagctacag 179

<210> 896
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 367
 <223> n = A,T,C or G

<400> 896
 ccactcactg ctgggaccca ggcacctccc ttctccatcc tctctggatt gtcagtaatg 60
 tcctggaaca gaagcctgtg ggatggcctt gggcacggag aagccctggg gtcagtgtcg 120
 tgcacggatg gcggcagtgt tgaacccagg aggctgaacc cggcccacca cggaagatga 180
 gtgcatggca accgcctgcc ttcacgtcgc tccacttggg aacccaagg tctgggctgt 240
 tctaggtatt gcttcacgtg cccacgaag ccccttaaca gagggcctgg ttcctgaag 300
 aaccaatccc aggaaggggc cttgatccct ccgccttgct gagagtgaac cctcgtctct 360
 cctcacnctc catttcattt ctgggaattg gggccttagt tcgaaccttt ggcaaggctg 420
 ttcttactaa tgcccaagcc cctttacccc tctccctata ggttacacag gggagaccag 480
 ggcctcggca gaagactgct gccacacttc cgaatcattc tgcttgccaa ataggtcatc 540
 ttcaccagtt gactgac 557

<210> 897
 <211> 495
 <212> DNA
 <213> Homo sapiens

<400> 897
 ctggaatctc ctttgcaatc ccatctgata agattaaaaa gttcctcacg gagtcccatg 60
 accgacaggc caaaggaaga gccatcacca agaagaagta tattggatc cgaatgatgt 120
 cactcacgtc cagcaaagcc aaagagctga aggaccggca ccgggacttc ccagacgtga 180
 tctcaggagc gtatataatt gaagtaattc ctgatacccc agcagaagct ggtggtctca 240
 aggaaaacga cgtcataatc agcatcaatg gacagtcogt ggtctccgcc aatgatgtca 300
 gcgacgtcat taaaaggga agcaccctga acatgggtgg cgcaggggt aatgaagata 360
 tcatgatcac agtgattccc gaagaaattg acccatagga agaggcatga gctggacttc 420
 atgtttccct caaagactct cccgtggatg acggatgagg actctgggct gctggaatag 480
 gacactcaag acttt 495

<210> 898
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 898
 ccacgactgc atgcccgcgc ccgccagggtg atacctccgc cggtgaccca ggggctctgc 60

```

gacacagggg  gtctgcatgt  ctaagtgcta  gacatgctca  gctttgtgga  tacgcggact  120
ttgttgctgc  ttgcagtaac  cttatgccta  gcaacatgcc  aatctttaca  agaggaaacc  180
gtaagaaagg  gccagcccg  agatagagga  ccacgtggag  aaaggggtcc  accaggcccc  240
ccaggcagag  atggtgaaga  tggccccaca  ggccctcctg  gtccacctgg  tcctcctggc  300
ccccctggtc  tcggtgggaa  ctttgctgct  cagtatgacg  gaaaaggagt  tggacttggc  360
cccgaccaa  tgggcttaat  gggacctaga  ggccacctg  gtgcag      406

```

<210> 899

<211> 277

<212> DNA

<213> Homo sapiens

<400> 899

```

cctaagagtc  attaaaaaat  tctccctttg  taacctcagt  gctggggact  gaggcgagcc  60
ccctcaggtc  gctggagtgc  accagtcttg  ggggaagagg  gcaggagaag  ctgtgttttt  120
tatctccaca  cgcagtatga  agataaaaatt  acatagtatt  acctagacat  agacagtatt  180
acctaggtag  atgcactgct  cacctgcacc  cttcccagct  ctcatttttg  ttaggtgatt  240
tgggataggg  atagtgtttt  ggggtatggg  gggagtg      277

```

<210> 900

<211> 389

<212> DNA

<213> Homo sapiens

<400> 900

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ctgttttgaa  atatttactg  ttattaaaac  ttgcttcaag  ggaaattgtg  aatatatttc  60
catatacaag  cactagtaac  agtaagtggc  cctgtcatcc  actaactcag  gcaaagtaaa  120
gaatggcatt  tttgaaggac  attttacctc  cccatatgat  ttgattggct  aggactttct  180
tctgtaaagt  catacctttt  cacatcttaa  gttttttacat  ttgccatttt  ccaaactctca  240
attttgggca  agaacgatat  agtcacaact  atggggctgc  tttcaaaagc  ggggctccat  300
ttctactgtc  agatcaatgt  ggtgctgtaa  ccactctttt  atccctacct  tcaagaacct  360
ccttatatga  agcctgtctt  tatccatca      389

```

<210> 901

<211> 453

<212> DNA

<213> Homo sapiens

<400> 901

```

ctggagacac  ccacttgggt  ggagaagatt  ttgacaaccg  aatggtcaac  cattttattg  60
ctgagtttaa  gcgcaagcat  aagaaggaca  tcagtgagaa  caagagagct  gtaagacgcc  120
tccgtactgc  ttgtgaacgt  gctaagcgta  ccctctcttc  cagcaccag  gccagtattg  180
agatcgattc  tctctatgaa  ggaatcgact  tctatacctc  cattaccctg  gcccgatttg  240
aagaactgaa  tgctgacctg  ttccgtggca  ccctggaccc  agtagagaaa  gcccttcgag  300
atgccaaact  agacaagtca  cagattcatg  atattgtcct  ggttgggtgg  tctactcgta  360
tccccaagat  tcagaagctt  ctccaagact  tcttcaatgg  aaaagaactg  aataagagca  420
tcaaccctga  tgaagctgtt  gcttatgggt  cag      453

```

<210> 902

<211> 293

<212> DNA

<213> Homo sapiens

<400> 902

```

cctccggccg cccccacggc tcccatggcc ttttcctgcg ctaccgtgtg gaggccctaa 60
ccctgcgtgg catcaatagc ttccgccagt acaagtatga cctggtggca gtgggcaagg 120
ctttggaggg catgttccgc aagctcaacc acctcctgga gcgcctgcac cagtccttct 180
tcctctactt gctccccggc ctctcccgtc tcgtctccat tggcctctac atgcccgtg 240
tcggcttctt gtcctgggc cttggtctca aggctctgga actgtggatg cag 293

```

<210> 903

<211> 228

<212> DNA

<213> Homo sapiens

<400> 903

```

ctggagactc tgggccagga gaagctgaag ctggaggcgg agcttggcaa catgcagggg 60
ctggtggagg acttcaagaa caagtatgag gatgagatca ataagcgtac agagatggag 120
aacgaatttg tcctcatcaa gaaggatgtg gatgaagctt acatgaacaa ggtagagctg 180
gagtctcgcc tggaagggct gaccgacgag atcaacttcc tcaggcag 228

```

<210> 904

<211> 388

<212> DNA

<213> Homo sapiens

<400> 904

```

ccaagcgctc agatcggcaa ggggcaccag tcttgatctg cccagtgcac agccccacaa 60
ccaggtcagc gatgaaggta ttttcagtct cccccgaacg atgaggcacc atgacgcccc 120
aaccattggc ctgggccagc ttgcacgcct gaagagactc ggtcacggag ccaatctggt 180
tgactttgag caggaggcag ttgcaggact tctcgttcac ggccttggcg atcctctttg 240
ggttggtcac tgtgagatca tccccacta cctggattcc tgcactggct gtgaacttct 300
gccaagctcc ccagtcatcc tggtaaaagg gatcttcgat agacaccact gggtagtcct 360
tgatgaagga cttgtacagg tcagccag 388

```

<210> 905

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 14

<223> n = A,T,C or G

<400> 905

```

ccggagccca cggnggtcat ggctgccaga gcgctctgca tgctggggct ggtcctggcc 60
ttgctgtcct ccagctctgc tgaggagtac gtgggcctgt ctgcaaacca gtgtgcctg 120
ccagccaagg acaggggtga ctgcggctac ccccatgtca cccccaagga gtgcaacaac 180
cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gccctgcag 240
gaagcagaat gcaccttctg aggcacctcc ag 272

```

<210> 906

<211> 525

<212> DNA

<213> Homo sapiens

<400> 906


```

ctgtgcaccc gagtgtcctt tccccctaa gctggcacat aggagcaaaa gttcactaac 60
cctgcagtgg aaggcaccaa ttgacaacgg ttcaaaaatc accaactacc ttttagagtg 120
ggatgagggg aaagaaatag tggtttcaga cagtgtctct tcgggagcca gaagcactgc 180
aagttgacaa agctttgtcc ggcaatgggg tacacattca ggctggccgc tcgaaacgac 240
attggtacca gtggttatag ccaagagggt gtgtgctaca cattaggaaa tatccctcag 300
atgccttctg caccaaggct gggttcgagct ggcattcacat gggtcacgtt gcagtggagt 360
aagccagaag gctgttcacc cgaggaagtg atcacctaca ccttggaat tcaggaggat 420
gaaaatgata accttttcca cccaaaatac actggagagg atttaacctg tactgtgaaa 480
aatctcaaaa gaagcacaca gtataaattc aggctgactg cttct 525

```

<210> 907

<211> 365

<212> DNA

<213> Homo sapiens

<400> 907

```

gtaaatttta agtctttcag ttttatagat acggaaaaca aggggtgactc tttaccacag 60
gatgaataaa gaactaagta atatgggaaa tgcagcaatt tctggactag ctgagccgat 120
tccttcctgt gagcacactg taagctttca agttctcttg gcaggaatta cagcacctgt 180
cccctgcaat ggccctgctg tgtgatgctc atcgtctccc ttcgtgctgg agcagtcccc 240
caggtgtcca tctcctatct ttttgttcca atcttctgtg agttccagct agcaggcttt 300
acatctgggg aaaggaaaac caggggtttt agctctgttc tctgctccca tccttcgctc 360
accag 365

```

<210> 908

<211> 608

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 594

<223> n = A,T,C or G

<400> 908

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cggaggtgcc tcagccatgg catggatccc tctcttccctc ggcgctccttg cttactgcac 60
aggacgtgcg gcctcctttg aggtgaccca gccaccttca atgtccgtgt cccagggaca 120
gacagccaag atcacctgca ctggagatag gttgggggat gaatatgttt gctggatatca 180
acagaagcca ggccagtccc ctgtattgat aatatatttg gataacaagc ggccctcggg 240
gatccctgac cgattctctg cctacgcctc tgggaacaca gccactctga tcatcagcg 300
ggcccaagtt atggatgagg cttattatta ctgtcaggcg tgggacggca gaactgtgg 360
gttcggcgaa gggaccaacc tgaccgtcct aggtcagccc aaggctgccc cctcggtcac 420
tctgttcccg cctcctctg aggagcttca agccaacaag gccacactgg tgtgtctcat 480
aagtgacttc taccggggag ccgtgacagt ggcctggaag gcagatagca gcccgtcaa 540
ggcgggagtg gagaccacca caccctccaa acaaagcaac aacaagtacg cggncagcag 600
ctatctga 608

```

<210> 909

<211> 513

<212> DNA

<213> Homo sapiens

<400> 909

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ctggtctcaa actcctcacc tcaactgac cgccacactt ggctcccaa agtgctggga 60

```

```

ttataggtgt gagccaccgt gcccaaagtt aagtattttt gatcaagtgt tttgtctttt 120
gtgcaaggca tttgtggctc tgctcatagca gaggaaaaca aaacatgcct atcaaatgaa 180
tcaagtccga cctctttctca tattgagcaa ctagaggctc aggaacattt cccctacctg 240
tcattctcat ctggcatacc aggtgtacat actccttctt attctcctct gttaccaaga 300
tgttggcccc attgggtttg aggtcacgaa ctccacaaac tccaaactct tggacctcag 360
tgctgaaggt gaggtcatag cctagtgtgg agacatcatt ttccagcaga taaaccagac 420
cttggtagaa gtggtaatct tcaactctca tatctgtata tctgactgac ttgccaaga 480
tgtgtttgta aaaggatcga gttaaagtagc act 513

```

<210> 910

<211> 272

<212> DNA

<213> Homo sapiens

<400> 910

```

ccggagccca cgggtggcat ggctgccaga gcgctctgta tgctggggct ggtcctggcc 60
ttgctgtcct ccagctctgc tgaggagtac gtgggcctgt ctgcaaacca gtgtgccgtg 120
ccagccaagg acaggggtgga ctgcggctac ccccatgtca cccccaagga gtgcaacaac 180
cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gccctgcag 240
gaagcagaat gcaccttctg aggcacctcc ag 272

```

<210> 911

<211> 263

<212> DNA

<213> Homo sapiens

<400> 911

```

cctgcaggta caaattgacc aggtctgtga cggctgcctc cacgtcgggtg gaataattct 60
gacgaatctg ggagctcatg gttggttggc aagaaggagc taaccacaaa aacggtgctg 120
gcaggtccca gaagcaggag atggccgaga agatgggtccc ggaggttgca agcggagagg 180
aaatcggagg gcggtcggag gctggaagag agtccccgga tctgttcctg ccaaacactg 240
ttgaagcaag agacagaccc gcg 263

```

<210> 912

<211> 470

<212> DNA

<213> Homo sapiens

<400> 912

```

ctgtgagcac cagcccaacc ctacctcttt aaaaagaaaa aacacaagtc cactctgaag 60
tcagcctctg taacctcccc acaagaaaac cgttttacat cagtcactaa ccaaacaacc 120
aacagtgtct caacacagaa agtaaagcat tatccagggc ttggactgtc tttcaagaaa 180
gccccaaatc ccctggcagg aggaagtcac agcagtgaag ccccatccca ggcccagttg 240
ttcccacgaa acacaccacg tggagacca gcatgactgc cgaactgatt caagtcccca 300
ggagggcttt attttttctt ttcaacatcc tgttctgcgg ctctcttggc actttttgcc 360
cgtatgccga agagccgggc gttggcacgg gccatacgga gactagcgaa ggctttgaaa 420
ttcttctctt cctcagtgat gactcgagct ttctccttct tatagacgtt 470

```

<210> 913

<211> 426

<212> DNA

<213> Homo sapiens

<400> 913

```

cctggacacc ataaggctgg tgggctttca gaattgtgtt aggggggcag gagtggcagg 60
ttcctgaatc tcggtoaata tagtaaccag caggacaaga ggtgcaggag gagcccacat 120
cagaggcttc tagggcacag ggacggcagt aggaggccac gccattcata acattggtga 180
cattgatgga gtagatcttg gcaacgtcat tgggtgtactt cctgcttgcc tcatgaaaag 240
tggtcctctg gaaggcccag gtgaggctcg tggtagtgtt ctctcaatg atgtaggtat 300
aggactgttt gcctttggaa cctttccacg tctccacagg agtgttggtc ctagaattca 360
caccacccat gaagtagagc tcacagttca cagaacagag ggtctcaaag acaaattgtga 420
ttctgg                                     426

```

```

<210> 914
<211> 252
<212> DNA
<213> Homo sapiens

```

```

<400> 914
ccaagctggg ggtgcgcaca tgtggaagaa ctggaggccc ggtgtcatga gcagaggctg 60
taccctagat gcccgcacca gtgccagcca acccaagaca ggagaaagag tttggcagtt 120
tcgcctctga ggaatacatg cctggccctc ctgtgaggtg aggcggtagg ggggaaggcg 180
caggctccga agtctgaggg cttgccggag ggggagtttc tgagcctttt gcatgggtgc 240
atgccccctg cc                                     252

```

```

<210> 915
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 915
ccactgggac tttggcttcc tgatgccgat tgtggatttc tgctgcaaag acagtgatgt 60
tgagccaggc tgtttcctct ctatccagag gttttgtagt ttttaataaaa ccatcctctg 120
gattaatagt gaaaaatctg tcgaggctag tgtgacgac gatggaatac cttatcgggc 180
tgttggcagc atcagggtct ttggcatgca ctctcccaac cacggtgccg gcag          234

```

```

<210> 916
<211> 366
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14, 338
<223> n = A,T,C or G

```

```

<400> 916
ccattcagtc tcanttcaga aaattccaga agaagaaggc tgggtctcag tcctagtggg 60
agaacccccct ctagtccac ctgaaaacac caaattcaac catcatctgt caagaaatta 120
aaagaacaac accctagaga gaagtcaccc acacacaatc cacacacgca tagcaaacct 180
ccaatgcatg tacagaaacc tgtgatattt atacccttgt aggaaggtat agacaatgga 240
attgtgagta gcttaatctc tatgtttctc tccattttca ttctctctgc aactattttc 300
cttgatgttg taataaaatg aagttacgat gagtgatnaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaa                                     366

```

```

<210> 917
<211> 492
<212> DNA

```

<213> Homo sapiens

<400> 917

```
ggcacagcga gggcagcatc tggaggagct ctgcagcctc cacacctacc acgacctccc 60
agggctgagc tcaggaaaaa ccagccactg ctttacagga caggggggtg aagctgagcc 120
ccgctcaca cccacccccca tgcactcaaa gattggattt tacagctact tgcaattcaa 180
aattcagaag aataaaaaat gggaacatac agaactctaa aagatagaca tcagaaattg 240
ttaagttaag ctttttcaaa aaatcagcaa ttccccagcg tagtcaaggg tggacactgc 300
acgctctggc atgatgggat ggcgaccggg caagctttct tcctcgagat gctctgctgc 360
ttgagagcta ttgctttggt aagatataaa aaggggtttc tttttgtctt tctgtaagggt 420
ggtcttccag cttttgattg aaagtcctag ggtgattcta tttctgctgt gatttatctg 480
ctgaaagctc ag                                     492
```

<210> 918

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 527

<223> n = A,T,C or G

<400> 918

```
ctgctcctgg gtaggcgtgc gggccatata gtaggggtag gatactagcc gctcgccgcc 60
gttcagattt gctcccagca cgaaggggtt cttctocata caggcaatga tggcccgga 120
ctccgtggat accgtggcat ctggcgaaaag gtagcgttca gggatgggca agttattgtt 180
ggggaccggg taggggaccc atttctctct ctcagctccc cagagcacag agttgagatc 240
cgggaaatct tcaaagatgt caaagccctc ctcagtcac agtcccagcg ccagttccc 300
aaactctgag cccatctgcg ctgccacctc gtagccatca gggttcagt agggcaccag 360
gtggatgcgt gtgtcctgca ccaggctgcg cacacgtggg ttcccatcgc ggtactctcg 420
gcacaggtac tgcattagca gcagcaacag ctctcggccc agcacctcgt tgccatggat 480
cccagcagtg tagcggaact cgggctcccc cagttcatgc tccccanggt tgtctgagat 540
ctccatggca tagatct                                     557
```

<210> 919

<211> 407

<212> DNA

<213> Homo sapiens

<400> 919

```
ccttatgact acaacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60
tccgggcctc cctccaagga gattctgacc ctgaagcagg tcaggaggt cctgaaggat 120
ggagacgatg tcatcatcat cggggtcttt aagggggaga gtgaccagc ctaccagcaa 180
taccaggatg ccgctaacaa cctgagagaa gattacaaat ttaccacac tttcatcaca 240
gaaatagcaa agttcttgaa agtctcccag gggcagttgg ttgtaatgca gcctgagaga 300
ttccagtcta agtatgagcc ccggagccac atgatggacg tccagggctc caccagga 360
tcggccatca aggacttcgt gctgaagtac gccctgcccc tggttgg                                     407
```

<210> 920

<211> 340

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 14, 15, 304, 318, 319, 325
 <223> n = A,T,C or G

<400> 920
 cctcttgggc agcnnagggc cctgcctctg tttcatgatg catgggtcat ttgtcttggg 60
 tgtcctatcc catatggaga agaaaggggc tctaagttct ggctcttctt tctttggggt 120
 tctctgtacc tgaggaaacc aggccctggg tgactttgca gatctgctca ccctcgggtga 180
 gcaacagtgt cagccatgca agcaggacag aatgggtgact gggtgccctt ggtgagctgt 240
 gtatttccta ggaggtagaa aactgtggga aactgtggct aataaaaact aagtgtgagc 300
 gtcnaaaaaa aaaaaaanna aaaanaaaaa aagcttgtac 340

<210> 921
 <211> 571
 <212> DNA
 <213> Homo sapiens

<400> 921
 ggaaaaataa ttttattcct caaatgatca gcacattcag aagcaggaca gaggagctct 60
 gatgacatct ctgggggact caaagcggcc ctcatTTTTct ggtattttcc caggtgattc 120
 tcttccaacc tgtgagtcct gctctctttc ctcccatctg aagtttgaga catcctctgc 180
 cacaaggaaa gccaccaata ccagcccaaa gagccaccag agaggaacca aaccacatgc 240
 atcaagttat aggaaggatg caagaaggga aattaggaag gaaagggagg agtttagttg 300
 gcattctggg gcatgctaac atgagggcga tggctctctc ccaagtcgct ggacatatcc 360
 cttttctttc caggtgctcc aactccaatt gcagtttggg ggaacgtgtg aaacttgttg 420
 aagtcctgcg tgtatgtgcc cagcatgcaa gtactcagat taccgcaccg cttagatctg 480
 gggctgtcca ggctggagcc ctctctctct tgctcctgct ccagctcact ggccttcac 540
 tgcacatagt cctgcaccag tgcagccagc a 571

<210> 922
 <211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 7, 12, 125, 198, 208, 214, 231, 253
 <223> n = A,T,C or G

<400> 922
 gccaanaca tncaggtcac agcagattcg ggcaacgtgtg gaagaagggt ggatgatgtc 60
 atccacaaac cctcgcaact ctgcagggaa agggttggca aacttctcga tgtactctgc 120
 ctgancagct tccacattct catgcccttt gaagatgac tccacagcgc cctttgctcc 180
 catgactgca atctctgngg tgggccangc atanttggtg tcaccacaaa ngtgcttaga 240
 gctcatgaca tcntaggcac ct 262

<210> 923
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 923
 ccactgggac tttggcttcc tgatgcogat tgtggatttc tgctgcaaag acagtgatgt 60

tgagccaggc tgtttcctct ctatccagag gttttgtagt ttttaataaaa ccatcctctg 120
 gattaatagt gaaaaatctg tgcagggtcag tgtgacgac gatggaatac cttatcgggc 180
 tgttggcagc atcagggtct ttggcatgca ctctcccaac cacggtgccg gcag 234

<210> 924

<211> 152

<212> DNA

<213> Homo sapiens

<400> 924

ccaggattga caggccatcc attcacagcc aggagatgct gggccagttc ctccaagagg 60
 tctccgtcat ggcagtgatg aaaacctaac aggggtggccc cctgtgccag ctccaggtgac 120
 tggagcccga gggcctgaca ggttcccagc ag 152

<210> 925

<211> 400

<212> DNA

<213> Homo sapiens

<400> 925

caatatcatg ccaaggaccc aaacaacctc ttcattggtgc gcttggcaca gggcctgaca 60
 catttaggga agggcaccct taccctctgc ccctaccaca ggcaccggca gcttatgagc 120
 caggtggccg tggctggact gctcactgtg cttgtctctt tccctggatgt tcgaaacatt 180
 attctaggca aatcacacta tgtattgtat gggctgggtgg ctgccatgca gccccgaatg 240
 ctggttacgt ttgatgagga gctgcggcca ttgccagtgt ctgtccgtgt gggccaggca 300
 gtggatgtgg tgggccaggc tggcaagccg aagactatca caggggtcca gacgcataca 360
 accccagtgt tgttggccca cggggaacgg gcagaattgg 400

<210> 926

<211> 521

<212> DNA

<213> Homo sapiens

<400> 926

ccacgtccct attttagaaa tgagaggagt gactgcacac aggaaaaatg ccacttttag 60
 caattcaaag tggaaaaact tcttttatat aaaaattatc ccaactccca ccccttggct 120
 ctcagtgttg catctccac agaggtaaaag ttgtgccatt tcccacggc tttaaacaaa 180
 gcaaaacaaa accaccaatc ctaataaccc cctccctgc cccgtctcca cgtgtgcgg 240
 agagggtctc agcccctcag tcggacttct ccttctcctt catgtgcaag aagacgatgc 300
 tgaagatgaa gagccccagc atcatggaga aggcgctggc gtagtagggg taggccgagg 360
 ggatgaagcg ctcatactgc gtgtgctgga gtggccgcac ggatacctga gtggaagagt 420
 acaggtgtgt gtagcctagc cggttgtaat ccactttaaa ctggaataca ccatacacgt 480
 cgggcaactt gaactgaaca ctgtatttgc cacctttctt c 521

<210> 927

<211> 520

<212> DNA

<213> Homo sapiens

<400> 927

ccaggctagt ctcgaaactcc tgacctcagg tgatctgcct gctcggcct cccaaagtgc 60
 tgggattacc ggcgtgagcc accatgcctg gccttacatt ttttaaaatg agggaacaaa 120
 tgaataaatg accaccatgt taggggtgg ctctgaacag aattgtaaag tgggccaagc 180
 ttgctctcaa ggtcacctta agcccacggt tgctgtgtcc tgccctctca gggtcatttc 240

```

ccagcctcca ggcacctgtt cacagaggct gcatctggcc tcgcctccac ccctccatcc 300
taagtgctc cgctgactta gaacaggaca gtcagggaga gaatgtgtct caggaggggtg 360
gagtcagatg atcacggcct tcctggcctc tgaggggata cagcttcggg tagcaaagtg 420
tgattttccc tgagccccag gaaagcttgg ccttgggtcag aatacattga accctgaggg 480
ccagagagtc cctggggcaa gctctgagag ggaggacctc 520

```

<210> 928

<211> 492

<212> DNA

<213> Homo sapiens

<400> 928

```

ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60
agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatatac ttaacaaagc 120
aatagctctc aagcagcaga gcatctcgag gaagaaagct tgcccggctc ccatcccatc 180
atgccagagc gtgcagtgtc cacccttgac tacgctgggg aattgctgat tttttgaaaa 240
agcttaactt aacaatttct gatgtctatc ttttagagtt ctgtatgttc ccatttttta 300
ttcttctgaa ttttgaattg caagtagctg taaaatccaa tctctgagtg catgggggtg 360
gggtgtgaggc ggggctcagc ttcaaccccc tgtcctgtaa agcagtggct ggtttttcct 420
gagcccagcc ctgggaggtc gtggtaggtg tggaggctgc agagctcctc cagatgtctg 480
cctcgtctgt cc 492

```

<210> 929

<211> 209

<212> DNA

<213> Homo sapiens

<400> 929

```

ttttttcacc atctaacaaa ggcactttat tgcattacca ttcacaatta acagtcaaga 60
acaaataata ataacaaata aaataacttt taagaggaca aggcattaga aataaaaaag 120
gacactaata acatttgtaa aagcttgtac tggatgtggg tgccccatt tgtgtgtgtg 180
gttgtgtgtg tgtggttgtg tgttgggtgg 209

```

<210> 930

<211> 617

<212> DNA

<213> Homo sapiens

<400> 930

```

cgcgtccttt aacaagcccc gttctcaaaa ggctgggggt atttatataa gaacttattc 60
caaagtgact ctaagatcca tgttcccaag atctagtacg ggctattcat ggttctgagg 120
catgtccagc atgcaggcaa acttatctgt tcaaattgag gtaaaacaga caaaaaacac 180
ttaatatataa cagaagctac ataattaaaa ctaaccttct gctgcttatt taagctaattg 240
atgtattctt accaaacaga gacctcaag tcaatcattt cttttgattt tagttaccac 300
cccaaatta agcctcttct ttcaaagcca ttattagtta aaaaaaagtt ttaaaatgaa 360
gaaaaatatt ttttcagaa cttgtatttt gtaattagtg tgatgcaatt tctttttatt 420
tttcaaactt agaaataact catgtatggg actatttggg atttttttca gataccaagg 480
aataccgaca ggattcataa ataggatttt ctgacactgg caggaaagtc tgctaaccgtt 540
tacaaaatac caaagactct tctttcaagc ttcaaagatg gctgagaatt aacagttatg 600
attagttttt cagtaca 617

```

<210> 931

<211> 521

<212> DNA

<213> Homo sapiens

<400> 931

```

ccaacaaaat tggatgaacac atggaagaac atggcatcaa gtttataaga cagttcgtac 60
caatttaaagt tgaacaaatt gaagcaggga caccaggccg actcagagta gtagctcagt 120
ccaccaatag tgaggaaatc attgaaggag aatataatac ggtgatgctg gcaataggaa 180
gagatgcttg cacaagaaaa attggcttag aaaccgtagg ggtgaagata aatgaaaaga 240
ctggaaaaat acctgtcaca gatgaagaac agaccaatgt gccttacatc tatgccattg 300
gcgatataat ggaggataag gtggagctca cccagttgc aatccaggca ggaagattgc 360
tggctcagag gctctatgca ggttccactg tcaagtgtga ctatgaaaat gttccaacca 420
ctgtattttac tcctttggaa tatggtgctt gtggcctttc tgaggagaaa gctgtggaga 480
agtttgggga agaaaatatt gaggtttacc atagttactt t 521

```

<210> 932

<211> 197

<212> DNA

<213> Homo sapiens

<400> 932

```

ccttgtgacc aattacatat gattaaaatt acttcccaca ttcacatcca cagtactcgt 60
ccaccattta acatctcaac caaaacgtta cacatgtgaa acaatcacta acaggcaaaa 120
atactaaacc tgtatatttg gtattgcaaa tacacttatg catgagcaag caagggattc 180
acagtgaagaa tctacag 197

```

<210> 933

<211> 610

<212> DNA

<213> Homo sapiens

<400> 933

```

cctcatttta acaatatctt ttttttgctc ttctgcttcc aaaccttatt tgccaatgta 60
atgcctttat ataaagtctt tatgatgaat gaaaaacttt caagtgtctg tgccctcatta 120
aatgcattat ttattaattt aacttctagt actctcgata aagagccagt gaaatgagtt 180
attgagttcc agggaaaaaa atgagaacat aattttgaat ttattatctc tctatacaca 240
cacagttcat aattggatta catataataa taatatcaac aagtctatca gtatcgaagt 300
tggatactgg taattttctca tgtgaggctc ttgtgtcaca gtcagcatag atttctggag 360
catttgtctg ttgatctttt ggtggcctca aacctcatta agtgggtgtg gagatgctgt 420
ttctgccatg tgagaatgtg atggcagaat taacacaacc ccaccagggg tacaacagag 480
cactttacat ccaaaggcag agaggacac agcaatgcag aattccagca cacttaagag 540
gagcaccatg ccatccagac ccattaagat ggacatagtc ccattgacaat tatttgagtt 600
gccatagtag 610

```

<210> 934

<211> 384

<212> DNA

<213> Homo sapiens

<400> 934

```

ctgctaccag gggagcgaga gctgactatc ccagcctcgg ctaatgtatt ctacgccatg 60
gatggagctt cacacgattt cctcctgcgg cagcggcgaa ggtcctctac tgctacacct 120
ggcgtcacca gtggcccgtc tgccctcagga actcctctga gtgagggagg agggggctcc 180
tttcccagga tcaaggccac agggaggaag attgcacggg cactgttctg aggaggaagc 240
cccgttggct tacagaagtc atggtgttca taccagatgt gggtagccat cctgaatggg 300
ggcaattata tcacattgag acagaaattc agaaaggag ccagccaccc tggggcagtg 360

```


aagtgccact ggtttaccag gcag

384

<210> 935
<211> 125
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 23, 24
<223> n = A,T,C or G

<400> 935
nttaaaattc atggaagtaa tannacagta ataaaatatg gatactatga aaactgacac 60
acagaaaaac ataaccataa aatattgttc caggatacag atattaatta agagtgactt 120
cgtaa 125

<210> 936
<211> 546
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 519
<223> n = A,T,C or G

<400> 936
gcccattgcca gcgtgtggct agcacgcaca acttgtggct gctgtccttc ctgaggaggt 60
ggaatgggag cacagccatc acagacgata ccctgggtgg cactctcacc attacgctgc 120
ggaatctaca accccatgat gcgggtctct accagtgcc gagcctccat ggcagtgagg 180
ctgacaccct caggaaggct ctggtggagg tgctggcagg ttctcccgcc aaggttctcc 240
ccctgcctcg aggaggaagg ggctggaggc tcatggctct gcctccata gaccccctgg 300
atcaccggga tgctggagat ctctggttcc ccggggagtc tgagagcttc gaggatgcc 360
atgtggagca cagcatctcc aggagcctct tggaaggaga aatccccctc ccaccactt 420
ccatccttct cctcctggcc tgcatttttc tcatcaagat tctagcagcc agcgccctct 480
gggctgcagc ctggcatgga cagaagccag ggacacatnc acccagtga ctggactgtg 540
gacctc 546

<210> 937
<211> 550
<212> DNA
<213> Homo sapiens

<400> 937
caccaatcaa aattcctggt ggtcctgaga ctttgggcag aatcatgaat gtcattggag 60
aacctattga tgaaagaggt cccatcaaaa ccaaacaatt tgctccatt catgctgagg 120
ctccagagtt catggaaatg agtggtgagc aggaattct ggtgactggt atcaagggtg 180
tcgatctgct agctccctat gccaaagggt gcaaaattgg gctttttggt ggtgctggag 240
ttggcaagac tgtactgatc atggagttaa tcaacaatgt cgccaaagcc catggtggtt 300
actctgtggt tgctggtggt ggtgagagga cccgtgaagg caatgattta taccatgaaa 360
tgattgaatc tgggtgttatc aacttaaaag atgccacctc taaggtagcg ctggtatatg 420
gtcaaatgaa tgaaccacct ggtgctcgtg cccgggtagc tctgactggg ctgactgtgg 480
ctgaatactt cagagaccaa gaaggtcaag atgtactgct atttattgat aacatctttc 540

550

```
<220>  
<221> misc_feature  
<222> 28, 63, 148, 153  
<223> n = A,T,C or G
```

```
<210> 939
<211> 337
<212> DNA
<213> Homo sapiens
```

```
<210> 940
<211> 362
<212> DNA
<213> Homo sapiens
```

```
<210> 941
<211> 216
<212> DNA
<213> Homo sapiens
```

```
<400> 941
ctggacatct ttccagcccg ggatacctac catcctatga gcgagtacc caccataccac 60
acccatgggc gctatgtgcc ccctagcagt accgatcgta gccctatga gaaggtttct 120
gcaggtaatg gtggcagcag cctctcttac acaaacccag cagtggcagc cacttctgcc 180
```

aacttgtagg ggcattgtcg ccgctgagct gagtgg

216

<210> 942

<211> 324

<212> DNA

<213> Homo sapiens

<400> 942

ctgattggct	tcaggccccc	tacctctata	aactctacca	gcattactac	ttcctggaag	60
gtcaaattgc	catcctatat	gtctgtggcc	ttgcctctac	agtcctcttt	ggcctagtgg	120
cctcctccct	tgtggattgg	ctgggtcgca	agaattcttg	tgtcctcttc	tcctgactt	180
actcactatg	ctacttaacc	aaactctctc	aagactactt	tgtgctgcta	gtggggcgag	240
cacttgggtg	gctgtccaca	gccctgctct	tctcagcctt	cgaggccagg	gagcctcaaa	300
tcttcagtct	ctcagagacc	acag				324

<210> 943

<211> 597

<212> DNA

<213> Homo sapiens

<400> 943

ctgacaaaat	tcctgggtta	ctaggtgtct	ttcagaagct	gattgcatcc	aaagcaaagt	60
accaccaagg	tttttatctt	ctaaacagta	taatagagca	catgcctcct	gaatcagttg	120
accaatatag	gaaacaaatc	ttcattctgc	tattccagag	acttcagaat	tcacaaacaa	180
ccaagtttat	caagagtttt	ttagtcttta	ttaatttgta	ttgcataaaa	tatggggcac	240
tagcactaca	agaaatattt	gatggtat	aacccaaaaat	gtttggaatg	gttttggaat	300
aaattattat	tcctgaaatt	cagaaggtat	ctggaaatgt	agagaaaaag	atctgtgcgg	360
ttggcataac	caaattacta	acagaatgtc	ccccaatgat	ggacactgag	tataccaaac	420
tgtggactcc	attattacag	tctttgattg	gtctttttga	gttaccgaa	gatgatacca	480
ttcctgatga	ggaacatttt	attgacatag	aagatacacc	aggatatcag	actgccttct	540
cacagttggc	atttgctggg	aaaaaaagag	catgatcctg	taggtcaaat	ggtgaat	597

<210> 944

<211> 359

<212> DNA

<213> Homo sapiens

<400> 944

ctggaagagg	aaaaggagat	actgcagaaa	gaactctctc	aacttcaagc	tgcacaggag	60
aagcagaaaa	caggtactgt	tatggatacc	aaggctgatg	aattaacaac	tgagatcaaa	120
gaactgaaag	aaactcttga	agaaaaaac	aaggaggcag	atgaatactt	ggataagtac	180
tgttccttgc	ttataagcca	tgaaaagtta	gagaaaagcta	aagagatgtt	agagacacaa	240
gtggcccatc	tgtgttcaca	gcaatctaaa	caagattccc	gagggctctc	tttgctaggt	300
ccagttgttc	caggaccatc	tccaatccct	tctgttactg	aaaagaggtt	atcatctgg	359

<210> 945

<211> 367

<212> DNA

<213> Homo sapiens

<400> 945

caggatctga	agtttggggt	cgagcaggat	gttgatatgg	tgtttgcgtc	attcatccgc	60
aaggcatctg	atgtccatga	agttaggaag	gtcctgggag	agaagggaaa	gaacatcaag	120
attatcagca	aaatcgggaa	tcatgagggg	gttcggaggt	ttgatgaaat	cctggaggcc	180

```

agtgatggga tcatgggtggc tcgtgggtgat ctaggcattg agattcctgc agagaaggtc 240
ttccttgctc agaagatgat gattggacgg tgcaaccgag ctgggaagcc tgtcatctgt 300
gctactcaga tgctggagag catgatcaag aagccccgcc ccactcgggc tgaaggcagt 360
gatgtgg                                     367

```

<210> 946

<211> 335

<212> DNA

<213> Homo sapiens

<400> 946

```

ccacagaggt ggtattacaa aatatacaaa gtgggtttctt tctttacatt tcatagaaga 60
agcctgcctc atttccaaat gagagcacta gaagcacaaa tcatgcagac catttactat 120
ataacttatg aaaaatgctg tacagggctg tgactataga tatagagtat ttggctctgt 180
ttgggaattg atatctacaa gggggagggt caggggagga ctgtccgata tcctgacttg 240
ctgggatggg ggagaagctg ggatggggga ggccccaatc ttgctgcacg gctacacca 300
ctcctccttt cctagacaag gctggagcgc actgg                                     335

```

<210> 947

<211> 384

<212> DNA

<213> Homo sapiens

<400> 947

```

cctcttgagg cacatccttt actgcattgt ggacagcgag tgtaagtcaa gggatgtgct 60
ccagagttac tttgacctcc tgggggagct gatgaagttc aacgttgatg cattcaagag 120
attcaataaa tatatcaaca ccgatgcaaa gttccaggta ttcctgaagc agatcaacag 180
ctccctgggt gactccaaca tgctggtgcg ctgtgtcact ctgtccctgg accgatttga 240
aaaccagggt gatatgaaag ttgccgaggt actgtctgaa tgccgcctgc tcgcctacat 300
atcccagggt cccacgcaga tgtccttcct cttccgcctc atcaacatca tccacgtgca 360
gacgctgacc caggagaacg tcag                                     384

```

<210> 948

<211> 173

<212> DNA

<213> Homo sapiens

<400> 948

```

ctgtggaggg gacactgtct ttgaggcatc actggttcca caaagggtag gggaaggctc 60
tgagggacca ccccatgccc tcattaatca accagaagct tggcctggag cagcagcggg 120
gattccagta gctgtgggca tacaggatgc tagggcgggc acaaccaggc cag                                     173

```

<210> 949

<211> 211

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 13, 14

<223> n = A,T,C or G

<400> 949

```

ccatccacgt tgnnaaacag aataaaatgg aaattcacct tgtcatctac ccgacattgg 60

```


<213> Homo sapiens

<400> 953

```

cgcggtccact gccgaccctc ttggttttctg aaaccaacct ttcttctctgc tctcctcttt 60
aagagcaaac cccaacatgt ataaggtcac agcaagtggg agccaggaaa agctgtggga 120
cccctcattt gagtacatc catatggcat ggagaaagaa aacctctctg ccagaaggaa 180
ctgaactctg gaagtcctaa ggaaggtcac catgatcagc agataggaaa gcattgccaa 240
gggctgtccc tcaagagctt agttttctta gggagaccag aaagacatca gatcctgact 300
gccctgtttt gctcaagttc tgaaatgagt ggcgatga agagctgggt gagctgaggg 360
aaagagtcaa ccatgtgggg tggggtagtg aggaagg 397

```

<210> 954

<211> 304

<212> DNA

<213> Homo sapiens

<400> 954

```

cctttgtacc gggccagcaa ctggaagggc acagtgtgga attccagggc ctgcagagtc 60
ttcttctgga acagggcctc gtggctccag tacagggaca ggttgaactg cagctcaaag 120
agctcctcag ggagcatcat ggggaagcgg atcttctcca ccaagccctc cacctectca 180
tgggaggcac gtcccccca gctccagggtg tccaaggoct tcagtagggc cagctcgctg 240
ggcaccgcca ggtcgtcctt gggcagcagc agttggagca ggtctgtggg gacactgggc 300
cagg 340

```

<210> 955

<211> 156

<212> DNA

<213> Homo sapiens

<400> 955

```

ctgtttcaac tccctgccaa gaaaaatgta gatgcaattc tggaggagta tgcaaattgc 60
aagaaatcgc agggaaatgt tgataataag gaatatgcgg tcaatgaagt tgtggcagga 120
ataaaagaat atttcaatgt gatgttgggc actcag 156

```

<210> 956

<211> 543

<212> DNA

<213> Homo sapiens

<400> 956

```

ctttcatctg accatccata tccaatgttc tcattttaaac attaccagc atcattgttt 60
ataaccagaa actctggtcc ttctgtctgg tggcacttag agtcttttgt gccataatgc 120
agcagtatgg agggaggatt ttatggagaa atggggatag tcttcatgac cacaaataaa 180
taaaggaaaa ctaagctgca ttgtgggttc tgaaaagggt attatacttc ttaacaattc 240
tttttttcag ggacttttct agctgtatga ctgttacttg acottttttg aaaagcattc 300
ccaaaatgct ctattttaga tagattaaca ttaaccaaca taattttttt tagatcgagt 360
cagcataaat ttctaagtca gcctctagtc gtggttcac tctttcacct gcattttatt 420
tgggtgtttgt ctgaagaaag gaaagaggaa agcaaatacg aattgtacta tttgtaccaa 480
atctttggga ttcatgtgca aataatttca gtgtggtgta ttattaaata gaaaaaaaaa 540
att 543

```

<210> 957

<211> 528

<212> DNA

<213> Homo sapiens

<400> 957

```
ctgtgatcaa gatgtattaa aagaatatga aagagcatct gggttattct agaagttctg 60
tgatcaaaac atattaaaaa aaattaaagc gcatctgggt tattctagaa gttcctgggc 120
tttatacttg gatatttaca gaggaagttg aacttcaagt tctgccactc ttcaaaatgg 180
gtgacaggag aggacgtgat aggacagtta aaaaaaaatt gatagtcatt ctctgatgga 240
gtgaagcaag ctttgtcaac catcaacaaa tatgacttca ttggtcacaa gccctgcaga 300
gatccaacaa gatttgagtt ttaaatacag aacatatttc aaacagaacc agcagagtgc 360
tgatgtatga atggaattga ttgctgaagg cagagagtat aaagaatctc aagaaacttt 420
tagtgccatt ttcatttaat aagccattgg tatagcaacc taaaaacctt ggctgtgatg 480
acaccaggat gtgtttatgg aattgctgca ggagaacaca attggcag 528
```

<210> 958

<211> 451

<212> DNA

<213> Homo sapiens

<400> 958

```
ctgtctgacc atggggacct tctgtctgaa gaggagctgg atgaatgaga ctctgggaat 60
catctacaca ggaccaaaccc caacaggcgc cctggcaccg gggaggcggg tagttgtact 120
ctgcttgtag agtccttgag cccagtttac agatctggag agcaggaggc caggacaagg 180
acaaaggctg gaggatggag taggacccag gggctctgcc atcctaggca tcattcaagg 240
tcttttatga agactttaca gatgtcctct gtaagtagca tctgagagtgg agttcagctc 300
ctttctctac ttttttttgg tctgatggca catatttatt gttctgtggg ctaatcacag 360
tgtttctaaa tgtaaaaagt gcatatgttg gtgtagctag tcccgcgaca ttgagctcct 420
ctgcatgaag acactgggct cctgcatcca g 451
```

<210> 959

<211> 158

<212> DNA

<213> Homo sapiens

<400> 959

```
ccagaccaag gctgctggac ctatgggaat attcgggtgt ctgtagagga tgtgactgtc 60
ctggtggact acacagtacg gaagttctgc atccagcagg tgggcgacat gaccaacaga 120
aagccacagc gcctcatcac tcagttccac tttaccag 158
```

<210> 960

<211> 235

<212> DNA

<213> Homo sapiens

<400> 960

```
ctgagcaggg aatccggccg gaggaaggag cagcttaccg actgcggtg ttcaccacag 60
gccaggccct aatatgcacc cactagttta gctcagactc ctctctacat atgaatggca 120
aaggcacttt tgatatacac tgtaaaatac actgtatttt agaatcggaa tctattttct 180
aatgttcccc tcaagggtg agtggcagga aggttgagga tgcaggactt tgcag 235
```

<210> 961

<211> 375

<212> DNA

<213> Homo sapiens

<400> 961
 cctggaaaga aaagggatat gtccagcgac ttggagagag accatcgccc tcatgttagc 60
 atgccccaga atgccaacta aactcctccc ttctcttctt aatttccctt cttgcatcct 120
 tcctataact tgatgcatgt ggtttggttc ctctctgggtg gctctttggg ctggtatttg 180
 tggcttttct tgtggcagag gatgtctcaa acttcagatg ggaggaaaga gagcaggact 240
 cacaggttgg aagagaatca cctgggaaaa taccagaaaa tgagggccgc tttgagtccc 300
 ccagagatgt catcagagct cctctgtcct gcttctgaat gtgctgatca tttgaggaat 360
 aaaattattt ttccc 375

<210> 962

<211> 409

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 14, 26, 73, 74, 81, 103

<223> n = A,T,C or G

<400> 962
 ctggggaggc ccncggggcc tctcangtgg acagggtccag gcattgggtg aagctggatg 60
 aagctggggc ctngctcct nctcatcaaa tacagatcac tngaccctg tcctcctcca 120
 tgggtgctgg ctctcggcc ccaactgccc tgcttctgct ttcttctctc acctcctcct 180
 cccccagctc catgtccagc tcgttgccctg cctctgaggg tgtgtagggt gagccactga 240
 tggaaacggca gctaaagaag acgattcgct tgagccgctt gttgtagaag aagtagttga 300
 aggaccagag gctaccatcc tccccgaagg gatctgagtc caagtctggg ttatagctgt 360
 agatgtcaca ttcagccagg cagatctcct cgtccacgc gttccacag 409

<210> 963

<211> 163

<212> DNA

<213> Homo sapiens

<400> 963
 gccatggcgt cctatttctga tgaacacgac tgcgagccgt cggaccctga gcaggagacg 60
 cgaaccaaca tgctgctgga gctcgcaagg tcaacttttca ataggatgga ctttgaagac 120
 ttgggggttg tagtagattg ggaccaccac ctgcctccac cag 163

<210> 964

<211> 344

<212> DNA

<213> Homo sapiens

<400> 964
 ccactggctg agttattggc ctggcaggta tagagtccgc tgtttctctc agtgatgttg 60
 gagataaaga gctcttgtgt gtgttgctgg atgttcccat caatcagcca agaatactgt 120
 gcagggtggg tagaggctgc atggcaggag aggtgaggt tccccctgg acggtaatag 180
 gtgtatgagg gggaaatggt ggggtcgtct gggccataga ggacattcag gatgactggg 240
 tcgctgtggg caacacttaa ttcgttctgg attccacact catagggtcc tacatcattc 300
 cttgtgacac tgagtagagt gagggtcctg ttgtcattgg acag 344

<210> 965

<211> 461

<212> DNA

<213> Homo sapiens

<400> 965

```
ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60
agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatata ttaacaaagc 120
aatagctctc aagcagcaga gcatctcgag gaaggaagct tgcccggtcg ccatcccatc 180
atgccagagc gtgcagtgtc cacccttgac tacgctgggg aattgctgat tttttgaaaa 240
agcttaactt aacaatttct gatgtctatc ttttagagtt ctgtatgttc ccatttttta 300
ttcttctgaa ttttgaattg caagtagctg taaaatccaa tctttgagtg catgggggtg 360
gggtgtaggc ggggctcagc ttcaaccccc tgtcctgtaa agcagtggct ggtttttcct 420
gagcccagcc ctgggaggtc gtggtagggtg tggaggctgc a 461
```

<210> 966

<211> 246

<212> DNA

<213> Homo sapiens

<400> 966

```
cctttcacag acactaccat tgagtgggtt gatgcagggt gcagccttca gtccccgagt 60
actgggttct gataaaattc cacagaatcc agcatcaact ggctcagacg gcatccactg 120
tagtaaaacta tttgtaaatg gggacatatc ttcccagcac cagtaggaca cattgatctt 180
ccgaaggccg acccatgggg ttaagggtgag cttggacatg ctctgagatg actgcattat 240
tcgcag 246
```

<210> 967

<211> 244

<212> DNA

<213> Homo sapiens

<400> 967

```
ctggagcatt ggcagggaca gtcagaaagg agacaagtga aaacgggtcag atggacacag 60
gcgaggagaga aaagacagag ggagagagac catcggaac aatcagaggg gccgagacga 120
tcagaaaagg gtcagccga gacaggctga gccagagttt ctagaagcag tttccaattc 180
aacggctcgc tttgagggcc aacgtgtcct aggccgaggc tgcagaagcg ctcacacact 240
cacg 244
```

<210> 968

<211> 436

<212> DNA

<213> Homo sapiens

<400> 968

```
ccaaagtctt taccctatctt aacccttgt atatttctga ctgctcactg ttcatattat 60
aggggaccag atttgtaata tagaattctc cataacatga atgaaattaa tgctgtccaa 120
gccagcatgg tggcttcata ttaagtagta acagaagtct gaacaattgg ataaatttga 180
cttccaagac agctaaactt ttcaactgca attttaaaaa ctacactaca ctgttatagt 240
taatctgaca aaaatgtcct caaagagtac tttattttat ttaaagcatc tgtttaattc 300
aacctttaat aattttgcaa agaagggtac gtgtgtatct taatatagcc tgacctgaat 360
ttatatgttt ttagctttag tatttaactt tttgtaacaa ataaaccttt tttaaaacaa 420
gtttaaaaaa gaaaaa 436
```

<210> 969

<211> 383

<212> DNA

<213> Homo sapiens

<400> 969

```
ctggctccct tgtctccagg gctttggagg atcagggtag ggagggctct gtctctaagc 60
cagggtgtcag gatcagaatc atgggtagaa ggtgccattc agctcacagc cgcaccaga 120
atccttttgca gccctccttc tttatTTTTT tcccattgca ttctgggagt ccacatctgg 180
ctttctcagc cactgttcat caccaggggt tttaggagga aggcttggct cctgtcttcc 240
cagaccacc atgcctggag aggtcaggat ggaactacct cattcggcga attagcccca 300
aattgaacgc tgaatcgtgt cccatgagat caggcgccat ctgtaaagtc tcctctggaa 360
atgccaatcc atccttcccc cag 383
```

<210> 970

<211> 543

<212> DNA

<213> Homo sapiens

<400> 970

```
ctgtagcttt tgtgggactt cactgtctca ggcgtcagge tcaggtagct gctggccgcg 60
tacttggtgt tgctttgttt ggaggggtgt gtggtctoca ctccgcctt gacggggctg 120
ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180
agtgtggcct tgttggttg aagctcctca gaggagggcg ggaacagagt gaccgagggg 240
gcagccttg gctgacctag gacggtcagc ctggtccctc cgccgaacac cgaagtgcta 300
ctgtttgtat atgagctgca gtaataatca gcctcgctc cagcctggag cccagagatg 360
gtcagggagg ccgtgttgcc agacttgag ccagagaagc gattagaaac ccctgagggc 420
cgatcagtga catcataaat catgagtttg ggggctttgc ctgggtgctg ttggtaccag 480
gagacatagt tataaaaacc aacgtcactg ctggttccag tgcaggagat ggtgatcgac 540
tgt 543
```

<210> 971

<211> 416

<212> DNA

<213> Homo sapiens

<400> 971

```
ccagactgac ttcaaaaaat taatgtgtat ccagggacat tttaaaaacc tgtacacagt 60
gtttattgtg gttaggaagc aatttcccaa tgtacctata agaaatgtgc atcaagccag 120
cctgaccaac atggtgaaac cccatctgta ctaaacataa aaaaattagc ctggcatgg 180
ggtgtaacgc tgtaatccca gtgacttggg aggctgaggc aggagaatcg cttgaacccg 240
ggaggcggag gttgcagtga gctaagatcg caccactgta ctccagcctg ggcaacagcg 300
agactccatc tcaaaaaaaaa aggaaatgtg tatcaagaac atgattatcc aggggtat 360
tctaattcag atcatcaaac tgattatata gaagagttgg ctttaaaatg tttgca 416
```

<210> 972

<211> 242

<212> DNA

<213> Homo sapiens

<400> 972

```
ccaaaaatcc caaaacatca ttttcaatca gtagagaagt gcttaggggt gaaaattgat 60
ttcatttgct actgaatttg gtaaactctg ggtaactttt atcaagatga agacatttta 120
ccctacctac tctagaaata tacaacaatg ttatatTTTA cactccttgg aaacatttga 180
ggaaaaaaat gcaatttgca cttcactttg ttggaatatc ccatagcact caataaactc 240
ag 242
```

<210> 973
 <211> 347
 <212> DNA
 <213> Homo sapiens

<400> 973
 cctgcagggg atggaacctt ccagaagtgg gcggctgtgg tggcgccttc tggagaggag 60
 cagagataca cctgccatgt gcagcatgag ggtctgocca agcccctcac cctgagatgg 120
 gagctgtctt cccagcccac catccccatc gtgggcatca ttgctggcct ggttctcctt 180
 ggagctgtga tcaactggagc tgtggctcgt gccgtgatgt ggaggaggaa gagctcagga 240
 cattttcttc ccacagatag aaaaggaggg agttacactc aggctgcaag cagtgcacgt 300
 gccaggggct ctgatgtgtc tctcacagct tgtaaagtgt gagacag 347

<210> 974
 <211> 571
 <212> DNA
 <213> Homo sapiens

<400> 974
 gaaagagcga gatgcgagaa cacttttggc taaaaatctc cettacaaag tcactcagga 60
 tgaattgaaa gaagtgtttg aagatgctgc ggagatcaga ttagtcagca aggatgggaa 120
 aagtaaaggg attgcttata ttgaatttaa gacagaagct gatgcagaga aaacctttga 180
 agaaaagcag ggaacagaga tcgatgggag atctatttcc ctgtactata ctggagagaa 240
 aggtcaaaat caagactata gaggtggaaa gaatagcact tggagtgggtg aatcaaaaac 300
 tctggtttta agcaacctct cctacagtgc aacagaagaa actcttcagg aagtatttga 360
 gaaagcaact tttatcaaag taccccagaa ccaaaatggc aaatctaaag ggtatgcatt 420
 tatagagttt gcttcattcg aagacgctaa agaagcttta aattcctgta ataaaaggga 480
 aattgagggc agagcaatca ggctggagtt gcaaggaccc aggggatcac ctaatgccag 540
 aagccagcca tccaaaactc tgtttgtcaa a 571

<210> 975
 <211> 221
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15
 <223> n = A,T,C or G

<400> 975
 ctggaggtgc ctcanaaggt gcattctgct tcttgcaggg gcttgaaaca ccaaggcact 60
 ccagggatcc tggagtcaaa gcagcagccc cggttggtgc actccttggg ggtgacatgg 120
 gggtagccgc agtcaccct gtccctgggt ggcaaggcac actgggttgc agacaggccc 180
 acgtactcct cagcagagct ggaggacagc aaggccagga c 221

<210> 976
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 976
 ccacagatt gtcacagact tttataaacc ttgatocct accaacgtta agtatgagtt 60
 tggccctgcc atcttcattg gctgggcagg gtctgccta gtcaccttg gaggtgcact 120

gctctcctgt tccctgtcctg ggaatgagag caaggctggg taccgtgcac cccgctctta 180
 ccctaagtcc aactcttcca aggagtatgt gtgacctggg atctccttgc cccagcctga 240
 caggctatgg gagtgtctag atgcctgaaa gggcctgggg ctgagctcag cctgtgggca 300
 ggggtgccgga caaagg 316

<210> 977

<211> 335

<212> DNA

<213> Homo sapiens

<400> 977

cctgtttgtc tgtacagcaa tgcagatgcg caggcccatc ctgggtggagg acccagatgc 60
 agggagcaaa tattcgggtt gtgttgctaa gagtcgcagg aactactgct agtgatacta 120
 ggcttgctgc aggaggatgt cacgctgaga aaggagatg actaggagca gaaaaagtac 180
 tctcactgtt ccagcttcca gcccaatcct agcagaatga atgcatttta aaatcagtcc 240
 acattcacat gtgctgagaa ggttgtagt ggtccctcat ctgggcaaag cagacccaag 300
 atggtgctaa gtgcagagt cagagcattc ttgtg 335

<210> 978

<211> 280

<212> DNA

<213> Homo sapiens

<400> 978

cctaacaccc aagctcttcc ttgcagaaga gctgagatgc taaggagacc atctggagtg 60
 tcataataag cccttgggat ttgctgagct cccacatggc tttcttcaac cacctggccc 120
 actttcttca accacattcc actttggaat gcggtgtctt aaggcaccaa gtgatcttaa 180
 gaatgggctc tgtttttgaa ttcagcaatc caagttccta tctatctcgg tgggacctcc 240
 aaaaaaaga aaaaggattg gcttggcttc taatgtaagg 280

<210> 979

<211> 318

<212> DNA

<213> Homo sapiens

<400> 979

ctgtccagat gacagtaaga ttccactgtc tgtaatcctc atgggtgccag gtctcctggg 60
 gcatctaggg caatgatgct actgcagttt atgcagttac acagtcaagt ctgtgccaaa 120
 ggaggtccca tccggcggcc aggtttctgt tcagtctggg gagcaatgcc aactggctgc 180
 ccccatagcc tggcatgagc tgatggcca gtgcaatccc aaagcaaaga agggcagaac 240
 tgggccaaga agctgtggta atttgcctc cctgocctcg acagcgtcgt cctctccttt 300
 tgcagcccca cacgcagg 318

<210> 980

<211> 568

<212> DNA

<213> Homo sapiens

<400> 980

ccagcactgg ctctttgatg gttttcctag gacattagga caagccgaag ccctggacaa 60
 aatctgtgaa gtggatctag tgatcagttt gaatatcca tttgaaacac ttaaagatcg 120
 tctcagccgc cgttggattc accctcctag cggaagggtg tataacctgg acttcaatcc 180
 acctcatgta catggtattg atgacgtcac tgggtgaaccg ttagtccagc aggaggatga 240
 taaacccgaa gcagttgctg ccaggctaag acagtacaaa gacgtggcaa agccagtcac 300

```

tgaattatac aagagccgag gagtgtcca ccaattttcc ggaacggaga cgaacaaaat 360
ctggccctac gtttacacac ttttctcaaa caagatcaca cctattcagt ccaaagaagc 420
atattgaccc tgcccaatgg gagaaccagg aagatgtggg cattcattca atagtgtgtg 480
tagtattggg gctgtgtcca aattagaagc taactgaggt agcttgagc atctcttcta 540
gttgaaatgg tgaactgata ggaaaaca 568

```

<210> 981

<211> 550

<212> DNA

<213> Homo sapiens

<400> 981

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ccatccccct ttagaacgta tcttaatgtg aacataaatt gttcttcatg atgcttaaaa 60
gcttacatat aattttcatt cttagaaaaa cgccacattt tggatcctgg atttttctga 120
atatcatgat tgaaaaaac aaaacaaaaa atgaacccaa atcaaagtgt ggttaaaactt 180
atatgagaaa gatttttcaa ccagatgggc attcaaaaaa gttggagctg taagtgccgg 240
cgactgagga cacagggtta attcctcgct gctgggtggaa ggctagagaa catcttcaaa 300
agagggtagc aagacgtgct cctaggggag gctcagtggt gtctcgctctg cccaagcatt 360
ttcagtcctg cttggtcaat gacatcgagt aagtttttgg catccacagc cagggcgtga 420
gcagcagtcg gcatttgctt tttgtactct tgctggaggg tggatcatgac atactgctgg 480
gccagtttca tcttggtgat gagctcaccg aggtcagagt tcaatagctt ctgtgccatc 540
tcaatctctc 550

```

<210> 982

<211> 524

<212> DNA

<213> Homo sapiens

<400> 982

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ccaaggtcag aggctgatgc aacaggccct cttctcccca gggccaggct cctgtccagc 60
ctgggcactg ccagagtgta tggcattggg cggatgctg ttctgtctct gcttggacac 120
cttcgcaaag atttctttca ggacagtctc aaaggctagc tcaacattgg tagagtccag 180
ggctgagggtc tccaggaaga gcagtccatt gttttcagcg aacattcggg cctcctcagt 240
gggcacttcc cgggcctggc tgaggctcact tttgttaccg acgagcatga cgacgatcgt 300
ggcttcagca tggatcataga gctccttcag ccacgtctcc accacagcat aggtctggtg 360
cttggttagg tcaaacacca ggagggcccc cactgcacca cgatagtacc cttgaagaca 420
aagttataat cttcctcagt tccattcccc atcttggctc cgcattggagg gtgcagggtg 480
cttcggggag agaggcgaca aatctgtgtg ttggtcaat gccc 524

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<210> 983

<211> 140

<212> DNA

<213> Homo sapiens

<400> 983

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ccttcgtgcc ctaacagcca gtccctgttt aaagtggaag agacctgtgg ctgccgctgg 60
acctgcccct gtgtgtgcac aggcagctcc actcggcaca tcgtgacctt tgatgggcag 120
aatttcaagc tgactggcag 140

```

<210> 984

<211> 358

<212> DNA

<213> Homo sapiens

<400> 984
 tggagcggcc gcccggcagg tccaacgagt cacaacagtg caataggtag aggattaaaa 60
 actgcatcaa acaggtgctg aaaataaata ctacctagga gaaggaggtg agagccctcg 120
 tgtgggggtt gttttcgacc ccttgagtgt gtgtgggggt tgtcttccga gccacgagcc 180
 tggcctgtct cgcggtgctg ttcaactctga cagagtgcgc ctgcagcacg ttgcctccag 240
 ggcccagcct ccagaaagcc tcagagcatc agagcatccg tcccatcgga tggaccagaa 300
 acaagaaaat ggggtggggg gaatcacagc tatcattcaa aggaaaggaa tttttttc 358

<210> 985
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 985
 ctgacccccc tttgtccaca gctaagatgg cagcagaatg ctatgtcact atatacagaa 60
 acaagacaac ctgaagctaa atggatgcc cctgcagagt caacaggtcc agcctcacag 120
 tgcacgccct gagctacagc ctctcccaaa aggcattctt cccacagcct caacgccgag 180
 caaggagcat caagggtttg tctcggttgt tttgttcttt ttacaaacta tagatatata 240
 cagttgaaaa ctacaggattt ctagccaata accatagtta ccaccacctt acaaataaaa 300
 agaaaatgcc agaaacatct ttaaatgcct tgtcacacca acagcaaagt gcacagagtg 360
 aggagaacac gagagtgcct tttcatttta aaaatgtttg gaaatatgta caactttgat 420
 acagtttcag ggtgctccag acacccatgg 450

<210> 986
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 986
 cctcctgccg gcagttcttg aagcttcttt ttcattcctg ctactctacc tgtattttctc 60
 agttgcagca ctgagtggtc aaaatacatt tctgggccac ctacaggaac ccatgcatct 120
 gcctggcatt taggcagcag agcccctgac cgtcccccac agggctctgc ctacagtcct 180
 catctcattt ggctgtgtaa agaaatggga aaagggaaaa ggagagagca attgaggcag 240
 ttgaccatat ccagttttat ttattttatt ttaatttggt tttttctcca agtccaccag 300
 tctctgaaat tagaacagta ggcggtatga gataatcagg 340

<210> 987
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 987
 ccaatgcccg gagcaggccc tctttccatc cagtgtcgga tgagctggtc aactatgtca 60
 acaaacggaa taccacgtgg caggccgggc acaacttcta caacgtggac atgagctact 120
 tgaagaggct atgtggtacc ttctgggtg ggcccaagcc accccagaga gttatgttta 180
 ccgaggacct gaagctgcct gcaagcttcg atgcacggga acaatgg 227

<210> 988
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 988
 cctcttttta ccagctccga ggtgattttc atattgaatt gcaaattcga agaagcagct 60

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tcaaacctgc cggggcttct cccgcctttt ttcccggcgg cgggagaagt agattgaagc 120
cagttgatta ggggtgcttag ctgttaacta agtgtttgtg ggtttaagtc ccattgggtct 180
agtaagggtc tagcttaatt aaagtggctg atttgcggtc agttgatgca gagtgggttt 240
t 241
```

<210> 989

<211> 193

<212> DNA

<213> Homo sapiens

<400> 989

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ccagccgtgt cccagacttg tagtttgatc ttcttcccct ctatatccac agtgcggatc 60
ttgaaatcaa ttccgatggt ggagatgtaa gtgttggtga agttgtcctc tgcaaagcga 120
atgatcagac aagtcttgcc cccccccgag tccccgatca gcagcaactt gaagaggtgg 180
tcgtaggctt tgg 193
```

<210> 990

<211> 499

<212> DNA

<213> Homo sapiens

<400> 990

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cctcaaccaa gagggttgat ggcctccagt caagaaactg tggctcatgc cagcagagct 60
ctctcctcct ccagcaggcg ccatgcaagg gcaggctaaa agacctccag tgcataca 120
tccatctagc agagagaaaa ggggcactga agcagctatg tctgccaggg gctaggggct 180
cccttgacga cagcaatgct acaataaagg acacagaaat gggggagggtg ggggagccct 240
atTTTTataa caaagtcaaa cagatctgtg cgttcattcc cccagacaca caagtagaaa 300
aaaaccaatg ctgtgggttc tgccaagatg gaatattcct cctcctagtt ccacacatgg 360
cgtttgcaat gctcgacagc attgcaactg gctgctgtct ctgtgttctg gcaccagtag 420
cttggggccc atatacactt ctcagttccc aacaagggct tatgggccga ggggcaggct 480
ccaattttca agcacacga 499
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<210> 991

<211> 262

<212> DNA

<213> Homo sapiens

<400> 991

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ctgccagcca ggctgtggtc agtcctcttg caggcaatct toggcaccga gagcctctgt 60
ccattagtgt cagccccgag ggggccacga cggaggccgc ccaatgtcca ctgtgatatt 120
ggtgaagagt ggttgccgag acacctcaa gacctggtac cgcactgacc caatgccgtc 180
ccgcttcagt gtcagcttcg tgttttgaat cttggtaaac ctctgagggt taggttcgtt 240
atgcttgctg cggtcgtgct tg 262
```

<210> 992

<211> 535

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 90, 91, 467, 524

<223> n = A,T,C or G

<400> 992
 ctgctgcttg tgaaattcat gtgtggtaact aagtaacctta catgaattat ttcattttaac 60
 cctcccaaca gtctcctttg tacgtgctgn nctctctgcc tggaaacact gtttcccacc 120
 cccaaccccc aattcttctg tttatttttc ttgagacaga gtctcactgt gtagcccaga 180
 ctggagtgca gtggcgcgat ctcggtcac tocaatctcc gcctcccggg tccctgttca 240
 agcagttctc ctgcctcagc ctctgagta gctgggatta caggcacacg ccaccatgtc 300
 cagctaattt ctgtattttt agtagagatg gggtttcacg atgttggcta ggatgggtc 360
 gatctctggg cagagtcttt totgtaaata tocttggtaa agaagcaatt ttagactgta 420
 gctgttgcaa atgctttaag gaagaagcaa aacaactgtc agtcttntctg aaatgaagaa 480
 actacaccag ggctgctata tcagagcaac cccaaccagc actncaatca tgatg 535

<210> 993
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 993
 ctgctgctct cccctcccag tctctactca ctgggatgag gttaggtcat gaggacacca 60
 aaaaccta aaataa caaa aagccaaaca agccttagct tttcttaaag gctgaaatgc 120
 ctggaagtgt ccctttattt ataaaataac ttttgtcata tttcttatac atgtttcttg 180
 taagaaattc agaaactaca gacaaagaga gtggaaatta cccactgtca gg 232

<210> 994
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 994
 ccagcagatc atccacgacg accaccctct gtcttggtc cagggcgtct ttctgaatct 60
 ccagctcagc cttcccgtac tccagggaat aggaggccca cagagtgggg cctggcagct 120
 tccccgctt tcggatgagc acgcagccca gtccaagctc ctggggccagg gaggggcca 180
 agaggaagcc tcgggagtct agg 203

<210> 995
 <211> 238
 <212> DNA
 <213> Homo sapiens

<400> 995
 ccatgcctgc cccgcccact ctgtatatat gtaagttaaa cccgggcagg ggctgtggcc 60
 gtctttgtac tctggtgatt tttaaaaatt gaatctttgt acttgcatg attgtataat 120
 aattttgaga ccaggtctcg ctgtgttgc caggctgggc ccaaactcct gagatcaagc 180
 aatccgcca cctcagcctc ccaaagtgt gagatcacag gcgtgagcca ccaccagg 238

<210> 996
 <211> 379
 <212> DNA
 <213> Homo sapiens

<400> 996
 ctgcagcctg ggactgaccg ggaggctctg accatttacc caccacaggt aggttgtgtt 60
 ctgaacctca ggttcacagg tgaaggccac agcatccttg tcctccacgg ggttggagtt 120
 gttgctggag atggagggtc tgggcagctc cgggtatata tggaactgtc cggttgcttc 180
 ttcattcaca agatctgact ttatgacttg tagggatatag aatcctgtgt cattctgggt 240

gacgttctgg atcagcaggg atgcattggg gtatattgtc tctcgaccac tgtatgcggg 300
 ccctggggta gcttggtgag ttctatttac atatectaca attagactgt tgccatccac 360
 tctttcgect ttgtaccag 379

<210> 997
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 997
 ccatccgaag caagattgca gatggcagtg tgaagagaga agacatattc tacacttcaa 60
 agcttttggg caattcccat cgaccagagt tggctcgacc agccttgga aggtcactga 120
 aaaatcttca attggattat gttgacctct accttattca ttttccagtg tctgtaaagg 180
 ccgtggagaa gtgtaaagat gcaggattgg 210

<210> 998
 <211> 207
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 61
 <223> n = A,T,C or G

<400> 998
 ggtggctgtg ctggggggcg cccacaaccc tgctcccccg acgtccaccg tgateccacat 60
 ncgacgcgag acctccgtgc ccgaccatgt cgtctgggtc ctgttcaaca ccctcttcat 120
 gaacccctgc tgctgggct tcatagcatt cgctactcc gtgaagtcta gggacaggaa 180
 gatggttggc gacgtgaccg gggccca 207

<210> 999
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 999
 ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagaggcg 60
 atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacacg cagggccttc 120
 tggcagacct catgcaatgc cctccatgtt aatattcatc agaaaatgga taattagggg 180
 ggccagcaaa aatatcaagg gtcaaataac gcacatttct gtttaggcca tctatggctt 240
 tcatctcctc tgaagtcaac tggaattcaa acacctgcac gttctgtctg atgcgctgct 300
 cattgtagct cttgg 315

<210> 1000
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 1000
 ctgttactca agaagatgta tttaatgctt gacaataaga gaaaggaagt agttcacaaa 60
 ataataagagt tgctgaatgt cactgaactt acccagaatg ccctgattaa tgatgaacta 120
 gtggagtgga agcggagaca gcagagcgcc tgtattgggg ggccgcccaa tgcttgcttg 180
 gatcag 186

<210> 1001
 <211> 173
 <212> DNA
 <213> Homo sapiens

<400> 1001
 ccacaaagcg gaaactcatc cactttttgcc tttttccgcc ccagggtcaaa aatgcgaatc 60
 ttggcatcag ggacacctcg gcagaagcga gactttgggt acggcttggt cttacaatac 120
 cggtaacaac gggcggggcg gcggcccatg ggcacaccag gatcttcagt ggc 173

<210> 1002
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 1002
 ctgaatgcct gagcccagca gggagctgag gatcatgggg tactgggggg gcctgaagac 60
 gtcgccgtgc accaacttcc acccagactc ctccatgggt tcttcaatgt catcctcctt 120
 gttgtagttg gcaatgtcct tccggagggt ccgaatgata atcatgctca ggataacctga 180
 caggaagaag accacaacaa cggagttaat gatagaaaac cagtggatct ggacgtcact 240
 catggtcagg taagtgtccc agcgagaggg ccatttgata tcactttcct ccagtgagac 300
 ag 302

<210> 1003
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 1003
 cctggggccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
 ttattttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
 ggctcactgc aacctctgcc tcctgggctg cagtgattct cctgcgttca agtaattctc 180
 ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
 tttgtatttt tagtagaaat ggggtttcac catgttggcg aggctgggtc cgaactcccg 300
 acctcaagga tcctcctgcc tcggcctcct aaggtgctgg gattgcaggt gtgagccacc 360
 acgtctgg 368

<210> 1004
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 1004
 ctgggcggat agcaccgggc atattttgga atggatgagg totggcaccg tgagcagtcc 60
 agcgaggact tggctctagt tgagcaattt ggctaggagg atagtatgca gcacggttct 120
 gagtctgtgg gatagctgcc atgaagtaac ctgaaggagg tgctggctgg taggggttga 180
 ttacaggggt gggcacagct cgtacacttg ccattctctg catatactgg ttagtgaggt 240
 gagcctggcg ctcttctttg cgctgagcta aagctacata caatggcttt gtgg 294

<210> 1005
 <211> 414
 <212> DNA
 <213> Homo sapiens

<211> 456
 <212> DNA
 <213> Homo sapiens

<400> 1009
 tttttttgta gggatatagaa aatacatttt taattttgat agagttcaca aatgacagca 60
 ttgacatttc tttaaacaata tacttctgtc aaggcacagc attaccatgt gtcccagat 120
 gccaagagg cagtgatttc atgtccccct gaggttttagc agagccacca atgtcaatag 180
 ggtggctgac ggggcctaga tttgctacca gataagccaa tgagacatgc tgtcagattt 240
 atggttacat aatcaagtat ttaaaaagat gcacaatagg taactgcaat gagcttggtc 300
 tgcatttagc gatagttcct ttcaaacaata gaagatagtt ttcagtatca agaaggatgc 360
 ctatatgtat gtcttccatg gagcctttcc tacaatttgc tttcattaca cattaagg 420
 agttcagctt tattgtgacc ttcttgagtc attcag 456

<210> 1010
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 1010
 ctgggcatgg gctgaggaga ggtcttgctt gcccccttca actttccatc tcagaactat 60
 aaactgctag gctgcaagga gagaagggtt aagtgggggt cagacaggag agaagggcag 120
 gaggcagtga gccccgatga cccaccaact ccaccaggcc ctgacaggga agcccccttg 180
 gttagtatca ttttgg 196

<210> 1011
 <211> 449
 <212> DNA
 <213> Homo sapiens

<400> 1011
 ccttgccggt gctgcaaaag gccacggcgc tgccctgccg ccggggccgag tactttgatg 60
 gttcagagcc cgtgcagaac cgcgtgtaca agtcactgaa ggtctggtcc atgctcgccg 120
 acctgaagga gagcctcggc acctccagt ccaccaaggc cgtgtacgac cgcctcctgg 180
 acctgcgtat cgcaacaccc cagatcgta tcaactatgc catgttcctg gaggagcaca 240
 agtacttcga ggagagcttc aaggcgtacg agcgcggcat ctgctgttc aagtggccca 300
 acgtgtccga catctggagc acctacctga ccaaattcat tgcccgtat gggggccgca 360
 agctggagcg ggcacgggac ctgtttgaac aggtctctgga cggctgcccc ccaaatatg 420
 ccaagacctt gtacctgctg tatgcacag 449

<210> 1012
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 274, 275
 <223> n = A,T,C or G

<400> 1012
 ccaggaccac aaccccacgc ttagctggt agcgcagggc aatcagggt ggggttcgct 60
 tgtgcttttt tgccaaggca caaaggactg ggtcctccaa gagcacggg gagttcgggt 120
 ccacctatgg ttcttctcgg tgggatccca gagcactata ggcaaccaga acaatgtctt 180

ttgacttgca gaaatccagc agttttctct ggttgaagta aggatgacat tccacctggt 240
 tgcagacagg cttgtacttg agccctggct tgtinnaggat catctccag 289

<210> 1013
 <211> 221
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 98, 99, 132, 133, 180
 <223> n = A,T,C or G

<400> 1013
 tctgtaaagt ctgcgttcct aatttagtaa aataaaagaa tagacactaa aatcatgttg 60
 atctataatt acacctatgg gatcaataag catgtcanna ctgattaatg tctactgtaa 120
 aaatttggtg gnnaaatttt catttgatat tagatataaa tatctgaata taaataattn 180
 taatatacta gtcatgatgt gtgttgattt ttaaaaatta t 221

<210> 1014
 <211> 512
 <212> DNA
 <213> Homo sapiens

<400> 1014
 gggccccga agcctctaca atgggctggt tgccggcctg cagcgccaaa tgagctttgc 60
 ctctgtccgc atcggcctgt atgattctgt caaacagttc tacaccaagg gctctgagca 120
 tgccagcatt gggagccgcc tcctagcagg cagcaccaca ggtgccctgg ctgtggctgt 180
 ggcccagccc acggatgtgg taaagggtccg attccaagct caggccccggg ctggagggtg 240
 tcggagatac caaagcaccg tcaatgccta caagaccatt gcccgagagg aagggttccg 300
 gggcctctgg aaagggacct ctcccaatgt tgctcgtaat gccattgtca actgtgctga 360
 gccggcgacc tatgacctca tcaaggatgc cctcctgaaa gccaacctca tgacagatga 420
 cctcccttgc cacttcactt ctgcctttgg ggcaggcttc tgcaccactg tcatcgccctc 480
 ccctgtagac gtggtcaaga cgagatacat ga 512

<210> 1015
 <211> 553
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 518
 <223> n = A,T,C or G

<400> 1015
 ctgggcagga agattatgat cgccccgaggc ccctctccta cccagatacc gatgttatac 60
 tgatgtgttt ttccatcgac agccctgata gttcagaaaa catcccagaa aagtggaccc 120
 cagaagtcaa gcatttctgt cccgacgtgc ccatcatcct ggttggggaat aagaaggatc 180
 ttcggaatga tgagcacaca aggcgggagc tagccaagat gaagcaggag ccggtgaaac 240
 ctgaagaagg cagagatatg gcaaacagga ttggcgccct tgggtacatg gagtgtctag 300
 caaagaccag agatggagtg agagaggttt ttgaaatggc tacgagagct gctctgcaag 360
 ctgacgtgg gaagaaaaaa tctgggtgcc ttgtcttggt aaaccttgct gcaagcacag 420
 cccttatgcg gttaattttg aagtgtctgt tattaatctt agtgtatgat tactggcctt 480

tttcatttat ctataattta cctaagatta caaatcanga agtcatcttg ctaccagtat 540
 ttagaagcca act 553

<210> 1016
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 1016
 ccacttcaca tgatggcggg cctttaagag cacaaagaag tttaatatgg acaacaacag 60
 gaaaaagcaa gaagaaaaca agtagggaaa gacagctaac ctggagagag agaatttctt 120
 taacctttat gttcttcatt aaaaatctta tcttggaactg atttgaggga tttttagaaa 180
 catggcctta ttttatataa gcattacott cccaggaatc tttgttgtat attaatTTTT 240
 gataaccatt tgattaactt taaaattaag tatatgtgtg tatatatata tatgtatggt 300
 tatatacaca catgtatctg tatagtttta tatatacata tatacacata gacatacaga 360
 gaaccactac tttgtaatag tgtacagttt gttttatatc tctttacttt ttttggttact 420
 attttatctg t 431

<210> 1017
 <211> 490
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 427, 434
 <223> n = A,T,C or G

<400> 1017
 ctggaagaac aaggcgaagt tctggtggct gtctgcgatg aatgtgccct tggctttggc 60
 tgggtatgtc acccggttag ttttgggtgc aatgctctga tcttatcca cgggtggaaag 120
 atcaacattt gtgatgcaa cttcagtggg gatottgact ctgagctcta cggtatTTGC 180
 aatataccgg ttgtcacctt caacttcgac aaggaagtca taataaccac tggaaaattt 240
 gacgttcatg aaatttagtt caaaaacatc ccctacaggg gtgaaggatg tcttctggag 300
 gacagtggct ctggaagcaa cagatttagc atgttctagt ttaacagtgg cctgagtcag 360
 aggctgagac agaacatttg tgacttgcaa cgcgaagata gcctgttcat gagtgtcgga 420
 agcaganccc tcangcacia ccacaactgg cacgtggtag cgattatgag agagcacagg 480
 cagacctcgg 490

<210> 1018
 <211> 503
 <212> DNA
 <213> Homo sapiens

<400> 1018
 ggagtaagct gagtacaagt accatagcag cagagctgca aaaggtcttg ggacctatag 60
 tctaatgca agataaggct atggggccta aggccatggg gcctgaggca cccctagacc 120
 ctgagccttc agcatttaag ggagggtgtc cccccattct cgataggcca tggtagacag 180
 atgggtctag ccgaggtgct ataactgctt ggaccactgt tgcagtccaa cctagtactg 240
 acactatatg gtttgaaacc cgggtgtggac aaagtagcca atgggctgaa cttagagcag 300
 tgtggatggt gatcaccaag gaggtgacac tgatggtaat ctgtatcaat agctgggtgg 360
 tctaccaagg cttaactttg tggttacta cctggaaaat acagaagttg ctagtcggcc 420
 accaaccat ttggggctaa gccacgtggc aagacctctg ggaaatgggt catcagaaac 480
 aggtaaccgt ttatcatgtg tca 503

<210> 1019
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 1019
 cctgtgtatg gagtagaggc ggggtgcacgg gtactgttcc tcacggcagt caagaggccc 60
 aggctctgtg ggctccagct ctgcatttcc cggttctggg gttggggctg ggatgacttc 120
 ctggttgact tgctgctggg actggaactg gaactgttcc tcggagggcc gaggagtca 180
 ctcttgataa tcatagtagt ctgggttggt gatctggctg ctatagtggg tgtactggac 240
 gtggtcaggg aacggcggca gcgggtccag gtcatactgg ccctgagcca gcaagcctgc 300
 aggcaggaat agcaggaaga ggtaggcagc tctcatggca acaaagag 348

<210> 1020
 <211> 260
 <212> DNA
 <213> Homo sapiens

<400> 1020
 ccacacggcg accgagggac agatggggcc ctgcgtccca taggctgcct gaaggtgggt 60
 agggcggcct gcggcatagt ggggtggctg tgggctccca gcctggcccc tgggaaccgt 120
 gggagcacag ggacaagcac atggctatgg aatgcagggt gaccaagga caagcgagtt 180
 gcggggatct ctactgtgac catgcagaat tgatcgagct ctgctgcgcc accaccacct 240
 catgttcccc aggggaacag 260

<210> 1021
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 1021
 ccttatgact ataacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60
 tccgggcctc cctccaagga gattctgacc ctgaagcagg tccaggagtt cctgaaggat 120
 ggagacgatg tcatcatcat cggggtcttt aagggggaga gtgaccacag ctaccagcaa 180
 taccaggatg ccgctaaca cctgagagaa gattacaaat ttcaccacac tttcagcaca 240
 gaaatagcaa agttcttgaa agtctcccag gggcagttgg ttgtaatgca gcctgagaaa 300
 ttccagtcca agtatgagcc ccggagccac atgatggacg tccagggctc caccagagac 360
 tcggccatca aggacttcgt gctgaagtac gccctgcccc tggttgg 407

<210> 1022
 <211> 140
 <212> DNA
 <213> Homo sapiens

<400> 1022
 ccaccccaga gtgggagagg ctgggaggtt gggaggctgt ggagagaagt gagcaaggtg 60
 ctcttgaacc tgtgctcatt ttgcaatttt atcagtaatt tgacttagag tttttacgaa 120
 acctcttttg ttgtccttgc 140

<210> 1023
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 1023
 ctggaggtgc ctcagaaggt gcattctgtg tcttgaggg gcttgaaaca ccaaggcact 60
 ccagggatcc tggagtcaaa gcagcagccc cggttgttgc actccttggg ggtgacatgg 120
 gggtagccgc agtccaccct gtccttggct ggcacggcac actggtttgc agacaggccc 180
 gcgtactcct cagcagagct ggaggacagc aaggccagga ccagccccag catgcagagc 240
 gctctggcag ccatgaccac cgtgggtcc gggacgcagc 280

<210> 1024
 <211> 274
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 262
 <223> n = A,T,C or G

<400> 1024
 cctggctgag caggcagagc accctgggac cccagggcag aaggaccct gccctccagt 60
 ccccaagacc caggcccgtc tccactcata cagcccact acatgtgacg tcagccctga 120
 aaaggtaaca ggaaagtcca gaacaaaaac aaaaccccaa aagtaaaaag gctacgtgta 180
 gcagagtaat accgaaaacg ttatatacac aggcgggtgat ggccccctcg gaagtgtccg 240
 ggtcacttag ggggcactgc anaggtccct gtgg 274

<210> 1025
 <211> 446
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 427, 431, 440
 <223> n = A,T,C or G

<400> 1025
 gcaaagagtg tactgtgctt gaggcagagc aotcacacat aaatggctgt gtgtggaatt 60
 gcttgccaaa gaagtttcta gcctttccct ttcccctaac tgcattcaggg aagaattctt 120
 atctctagct tggtttccac atgaggtttt tctgagaagg gcttgggaca agaagtctgt 180
 catgttagtt aagcaggcaa gaaatcctac taatccagtt ttgtttgaaa gttgtttgtc 240
 cgtatgattt tttaaaagtc aagtttaatt tcaaaaaacc ttttttttct gagattactt 300
 ttggggtaat atttaaaatg agagacattt tgtaaccctg taaaatacat agggaaatata 360
 acattccagt gtatacaaag aaggcaaatt ctttaaatcaa ataaagcgca ttataaaatc 420
 aaaaaanaaa naaaaaaaaaa aaaaaa 446

<210> 1026
 <211> 189
 <212> DNA
 <213> Homo sapiens

<400> 1026
 ctgtgagaga gatgctcaat atgccccagg ctatgacaaa gtcaaggaca tctcagaggt 60
 ggtaacccct cggttccctt gtactggagg agtgagtccc tatgctgacc ccaatacttg 120
 cagaggtgat tctggcgggc ccttgatagt tcacaagaga agtcgtttca ttcaagttgg 180

tgtaatcag

189

<210> 1027

<211> 92

<212> DNA

<213> Homo sapiens

<400> 1027

ccagaccctc cttagtagac gatctcggac cacaaaccaa ggagtctcgt ggccttggtat 60
 tcccagaccc taggatggta tccctctgac ag 92

<210> 1028

<211> 438

<212> DNA

<213> Homo sapiens

<400> 1028

ctgaaaagcc atctttgcat tgttcctcat ccgcctcctt gctcgcgcga gccgcctccg 60
 ccgcgcgcct cctccgcgcg cgcggactcc ggcagcttta tcgccagagt ccctgaactc 120
 tcgctttctt tttaatcccc tgcacccgat caccggcggtg cccaccatg tcagacgcag 180
 ccgtagacac cagctccgaa atcaccacca aggacttaaa ggagaagaag gaagttgtgg 240
 aagaggcaga aaatggaaga gacgcccctg ctaacgggaa tgctaattgag gaaaatgggg 300
 agcaggaggc tgacaatgag gtagacgaag aagagggaaga aggtggggag gaagaggagg 360
 aggaagaaga aggtgatggt gaggaagagg atggagatga agatgaggaa gctgagtcag 420
 ctacgggcaa gcgggcag 438

<210> 1029

<211> 330

<212> DNA

<213> Homo sapiens

<400> 1029

ccagccgcat gggagtggag gcagtcacgt ccttgctaga ggccaccccg gacaccccg 60
 cttgcgtcgt gtcactgaac gggaaccacg ccgtgcgcct gccgctgatg gactgcgtgc 120
 agatgactca ggatgtgcag aaggcgatgg acgagaggag atttcaagat gcggttcgac 180
 tccgagggag gagctttgcg ggcaacctga acacctacaa gcgacttgcc atcaagctgc 240
 cggatgatca gatcccaag accaatcgca acgtagctgt catcaacgtg ggggcacccg 300
 cggctgggat gaacgcggcc gtacgctcag 330

<210> 1030

<211> 228

<212> DNA

<213> Homo sapiens

<400> 1030

ctggagactc tgggccagga gaagctgaag ctggaggcgg agcttggcaa catgcagggg 60
 ctggtggagg acttcaagaa caagtatgag gatgagatca ataagcgtac agagatggag 120
 aacgaatttg tcctcatcaa gaaggatgtg gatgaagctt acatgaacaa ggtagagctg 180
 gagtctcgcc tggaagggtg gaccgacgag atcaacttcc tcaggcag 228

<210> 1031

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1031
 ccacaaagcc attgtatgta gcttttagctc agcgcaaaga agagcgccag gctcacctca 60
 ctaaccagta tatgcagaga atggcaagtg tacgagctgt gccaaccct gtaatcaacc 120
 cctaccagcc agcacctcct tcaggttact tcatggcagc tatcccacag actcagaacc 180
 gtgctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240
 ctcagggtgc cagacctcat ccattccaaa atatgcccgg tgctatccgc ccag 294

<210> 1032
 <211> 278
 <212> DNA
 <213> Homo sapiens

<400> 1032
 ggaggtatta cagacagcac tgcactttgg agttgggcag ctacatcgag gacctctttg 60
 tgggtccacag tgacctctcc agcattgtga tcttggataa ctcccagg gcttacagga 120
 gccatccaga caatgccatc cccatcaaatt cctgggttcag tgaccccagc gacacagccc 180
 ttctcaacct gctcccaatg ctgggtgccc tcagggttcac cgctgatgtt cgttccgtgc 240
 tgagccgaaa ccttcaccaa catcggtctt ggtgacgg 278

<210> 1033
 <211> 155
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 17, 31, 74, 75
 <223> n = A,T,C or G

<400> 1033
 cgcgttcanc catgttnaaa ccgattgcat naacttcgaa accggcccgc ccgcccggcg 60
 ctggagaggg gcanngggag aagcagagag tttatcattc atctgtacac atagacgttt 120
 cttctttaaa taacaccacg ggcgggagcc ccac 155

<210> 1034
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 1034
 ctggaccagc accccattga cgggtacctc tcccacaccg agctggctcc actgcgtgct 60
 cccctcatcc ccatggagca ttgcaccacc cgctttttcg agacctgtga cctggacaat 120
 gacaagtaca tcgccctgga tgagtgggcc ggctgcttcg gcatcaagca gaaggatata 180
 gacaaggatc ttgtgatcta aatccactcc ttccacagta ccgattctc tctttaaccc 240
 tccccttcgt gtttccccca atgtttaaaa tgtttggatg gtttggtgtt ctgcctggag 300
 acaaggtgct aacatagatt taagtgaata cattaacggg gctaaaaatg aaaattctaa 360
 cccaagacat gacattctta gctgtaactt aactattaag g 401

<210> 1035
 <211> 333
 <212> DNA
 <213> Homo sapiens

<400> 1035
 ctgagctggg ggttgaattt ctccaggcac tccctggaga gaggaccag tgacttgtcc 60
 aagtttacac acgacactaa tctcccctgg ggaggaagcg ggaagccagc caggttgaac 120
 tgtagcgagg cccccaggcc gccaggaatg gaccatgcag atcactgtca gtggagggaa 180
 gctgctgact gtgattaggt gctgggggtct tagcgtccag cgcagcccgg gggcatcctg 240
 gaggctctgc tccttagggc atggtagtca ccgcgaagcc gggcaccgtc ccacagcatc 300
 tcctagaagc agccggcaca ggagggaagg tgg 333

<210> 1036
 <211> 198
 <212> DNA
 <213> Homo sapiens

<400> 1036
 ccaatgtaca tgggtggacta tgccggcctg aacgtgcagc tcccgggacc tcttaattac 60
 tagacctcag tactgaatca ggacctcact cagaaagact aaaggaaatg taatttatgt 120
 acaaaatgta tattcggata tgtatcgatg ccttttagtt tttccaatga tttttacact 180
 atattcctgc caccaagg 198

<210> 1037
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 1037
 ctggagatga tcctcaacaa gccagggtc aagtacaagc ctgtctgcaa ccagggtgaa 60
 tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattgtt 120
 ctggttgctt atagtgtctt gggatccac cgagaagaac catgggtgga cccgaactcc 180
 cgggtgctct tggaggaccc agtcctttgt gccttgcaa aaaagcacia gcgaacccca 240
 gccctgattg ccctgcgcta ccagctacag cgtgggggtg tggctcctgg 289

<210> 1038
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 1038
 ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60
 cttgaggtca ggagttcgag accagcctcg ccaacatggg gaaaccccat ttctactaaa 120
 aatacaaaaa attagccaag tgtggtggca tatgcctgta atcccaacta ctcagaaggc 180
 cgaggcagga gaattacttg aacgcaggag aatcactgca gccaggagg cagaggttgc 240
 agtgagccga gattgcacca ctgactcca gcctgggtga cagagcaaga ctccatctca 300
 gtaaataaat aaataaataa aaagcgtctg agtagctgtg gcctcaccct gaagtcagcg 360
 ggcccagg 368

<210> 1039
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 226, 227, 246, 259, 390, 391
 <223> n = A,T,C or G

<400> 1039
 ctgggcctat gctgggtcatg aacgggtcctg gaaaatgact cccttccttc agtatctgca 60
 tcctcatgaa gtcattcatt ttggagatcg tgtcttcact tttcttgggtg aagaaactgc 120
 tggatggagt tgttgggtggc atctgaggag tccgaagatg gctctcaggg aaggttgtgc 180
 tggcctctga aggatttgga agctgactct gttcctgggg tagctnnatg ctcttgggggt 240
 cattgnttct cgggtttgnt tttttcttta tctggataaa actatgcatt tctgaaatca 300
 gttttgacat ctggttcttt tttcctaagt cgaaagcaga aaagttggaa gcttatctcc 360
 ttcttcacag ggggatattg tggacattgn nctgtcccca ctacatccat ttttcct 417

<210> 1040
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 1040
 ctgtccaatg gcaacaggac cctcactcca ttcaatgtca caagaaatga cgcaagagcc 60
 tatgtatgtg gaatccagaa ctcagtgagt gcaaaccgca gtgaccaggt caccctggat 120
 gtcctctatg ggccggacac ccccatcatt tcccccccag actcgtctta cctttcggga 180
 gcgaacctca acctctcctg ccaactcgcc tctaaccat cccgcagta ttcttggcgt 240
 atcaatggga taccgcagca acacacacaa gttctcttta tcgccaaaat cagccaaaat 300
 aataacggga cctatgctg ttttgtctct aacttggcta ctggccgcaa taattccata 360
 gtcaagagca tcacagtctc tgcattctga acttctcctg gtctctcag 409

<210> 1041
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 473
 <223> n = A,T,C or G

<400> 1041
 cctcggctcc acacctccgc tgtgaccaca gcctcaggtc aagctgtgct ggggccatcc 60
 accttccttt gccatttaga agatgggggt tggagcttgg caacacagaa attgacatca 120
 gccttataaa accttggctg aacctaccga cctccaggag aatttcagcc aaaacaaaaa 180
 agcaaataca cagagggacc ctggaaccag aatccctccc catgggaaag acgaaggcac 240
 agagattcga gccaaagtct ccaacatgtt ggtgtttgca gaaaagtccg gtcacgtcac 300
 acacagcaca gaggcaagaa gcgaaggcag tggcattcac aggactactt tatattaaag 360
 tttattacat ttggaaaatc tactgtacag ggaaaaaccc attggattaa gtagagtttt 420
 gccaaaagca aaagactatc actctttgga aaatattcct gattccagcc canggccag 480
 ggtggggcca ca 492

<210> 1042
 <211> 125
 <212> DNA
 <213> Homo sapiens

<400> 1042
 cctggctctg atccagtgc ccctctcacc aaagaactcg gtttaaccag ggctctgtaa 60
 gaccactccc acccagagac ttgtgtggcc tgggtgtggcc tgtgtgtcgg attccttcc 120
 gtcag 125

<210> 1043
 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 1043
 ccagcctgga gataagggtg aaggtggtgc ccccggaactt ccaggtatag ctggacctcg 60
 tggtagccct ggtgagagag gtgaaactgg ccctccagga cctgctggtt tccctggtgc 120
 tcctggacag aatggtgaac ctggtggtaa gggagaaaaga ggggctccgg gtgagaaaagg 180
 tgaaggaggc cctcctggag ttgcaggacc ccctggagggt tctggacctg ctggtcctcc 240
 tgggtcccaa ggtgtcaaag gtgaacgtgg cagtccctggg ggacctggtg ctgctggctt 300
 ccctggtgct cgtggtcttc ctggtcctcc tggtagtaat ggtaaccag gacccccagg 360
 tcccagcggg tctccaggca aggatgggccc ccaggtcct gcgggtaaca ctggtgctcc 420
 tggcagccct ggagtgtctg gacaaaaagg tgatgctgg 459

<210> 1044
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 1044
 cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
 ttattttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
 ggctcactgc aacctctgcc tcctgggctg cagtgattct cctgcgttca agtaattctc 180
 ttgcctcggc cttctgagta gtgggatta caggcatatg ccaccacact tggctaattt 240
 tttgtatttt tagtagaat ggggtttcac catgttggcg aggctggtct cgaactcctg 300
 acctcaagga tcctcctgcc tcggcctcct aaggtgctgg gattgcaggt gtgagccacc 360
 acgtctgg 368

<210> 1045
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 1045
 ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagaggcg 60
 atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacag cagggcctcc 120
 tggcagacct catgcaatgc cctccatgtt aatattcatc agaaaatgga taattagggg 180
 ggccagcaaa aatatcaagg gtcaaataac gcacatttct gtttaggcca tctatggctt 240
 tcattctctc tgaagtcaac tggaattcaa acacctgcac gttctgtctg atgcgctgct 300
 cattgtagct cttgg 315

<210> 1046
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 1046
 cctgcctgag agggccccgg gcagcacagg gaggacgagc ttgtccagca gaggggtctgg 60
 cagaggggtcc cgcagagggt tgggcagggg gtctgacatc cctggctcct gctctggctc 120
 tggctgccgg gatttgcaca ggcccagggt catcacagatg ccgtttgagt caatctggtt 180
 ctggaagtag tcgatgacca gggggaagta gtcgtcaagc acttggttgc actggggcat 240
 gagcagcttc aaggggagga cgttgccactc ctgctccagg aacttctca ccgtgtcctg 300

gaaaatggcc tccttgg

317

<210> 1047

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 183, 271, 287, 292, 294, 343

<223> n = A,T,C or G

<400> 1047

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gtacaagctt tttttttttt tttttttttt tttgtttaat gcttgaactt ttttttgag 60
agagaaatth agaaagacac aaggtacaca gagtaaaaatg tttttctttt ttcaggacct 120
tgaactgaat cttgcactgc tttggtttct atctaggaag ctcagcgaca gcagagtctg 180
tanaggcggc cactgatttc acacaccccc gagagggact cacgggtagc acaacggccg 240
gttcggcaat agcaggtggc tcttgccctga naacctgagg ttctaanagc ananagtcca 300
tttcctgcaa aggagatagc aaggctcctgg ttgtcttccc canactgctt ctgggttgta 360
gcctcatcag ctctttcctg gagtgactca gcctgggcct gcagggccac ca 412
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<210> 1048

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 267, 336, 344, 360, 395, 419, 420, 430, 441

<223> n = A,T,C or G

<400> 1048

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taaaaaaagg aaaaagtttt attacgaaac tagtttgtat aaaacagggt tatacatatt 60
tttgtaagtt tgtaataaaa cagtaagaaa aaaaggcagt aatagaaatc tccaaaaggc 120
aacctatcaa aaccaactgg ctgccacttt gagtttggac agtagctgca taaactttgt 180
tcttcttgaa cagtatttaa taacatcatt aatacatata caacatttct ataaagtaag 240
acacattggg gctgaagtac aactgngggc ctcttgatct cacctatgag gagagttctt 300
tacaaaacca catagggaaa attgcagttg taaggngaac tacncatcta aaatatgcan 360
aggtaatagc attacatggt aaaggatatca aggnatata cacattttta accatttggn 420
acaaaacttn tataaaatth ntttctctct ctttctctct tatgcacaaa aaatat 476
```

<210> 1049

<211> 274

<212> DNA

<213> Homo sapiens

<400> 1049

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cctggctgag caggcagagc accctgggac cccagggcag aaggaccctt gccctccagt 60
ccccaaagacc caggcccgtc tccactcata cacgccacct acatgtgacg tcagccctga 120
aaaggtaaca ggaaagttca gaacaaaaaac aaaaccccaa aagtaaaaag gctacgtgta 180
gcagagtaat accggaacg ttatatacac aggcggtgat ggccccctcg gaagtgtccg 240
ggtcacttag ggggcactgc agaggtccct gtgg 274
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<210> 1050

<211> 472
 <212> DNA
 <213> Homo sapiens

<400> 1050
 ctgcagcctg ggactgaccg ggaggctctg attattttacc caccacaggt aggttggtgtt 60
 ctgaatctca gggtcacagg ttaaggctac agcatcctca tcctccacgg gggtggagtt 120
 gttgctggtg atgaagggtt tgggtggctc tgcatagact gtgatcgctg tgactgtggt 180
 cctattgagg ccagtgtctg agttatgggc ttggcacgta taggatccac tattattcac 240
 agtgatgttg gggataaaga gctcttgggt ggattgctgg aaagtcccat tgacaaacca 300
 agagtactgt gcagggtgggt tagaggctgc gtggcaggag aggttcagat tttccctga 360
 tctgtaagat gtgttttagag gggaaatggt gggggcatcc gggccataga ggacattcag 420
 gatgactgaa tcaactgcgc ttggcactcac tgggttctgg gtttcacatt tg 472

<210> 1051
 <211> 249
 <212> DNA
 <213> Homo sapiens

<400> 1051
 ccaccaaccg tggcatcacg cgaatccggg gcaccagcta ccagagccct cacggcatcc 60
 ccatagacct gctggaccgg ctgcttatcg tctccaccac cccctacagc gagaaagaca 120
 cgaagcagat cctccgcacg cggtgagagg aagaagatgt ggagatgagt gaggacgcct 180
 acacgggtgct gaccgcgcatc gggctggaga cgtcactgag ctacgccatc cagctcatca 240
 cagacctgc 249

<210> 1052
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 1052
 ccaggaccac aacccacgc tgtagctggt agcgcagggc aatcagggct ggggttcgct 60
 tgtgcttttt tgccaaggca caaaggactg ggtcctccaa gagcaccggg gagttcgggt 120
 ccacccatcg tttgtctcgt tgagatccca gagcactata ggcaaccaga acaatatctt 180
 tcgacttgca gaaatctagc aatttactcc ggttgaaata cggatgacat tctacctggt 240
 tgcagacagg cttgtacttg agtctctggct tgttgaggat catctccag 289

<210> 1053
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 1053
 ccacgactgc atgcccgcgc ccgccagggt atacctccgc cggtgaccca ggggctctgc 60
 gacacaagga gtctgcatgt ctaagtgtca gacatgctca gctttgtgga tacgcggact 120
 ttgttgctgc ttgcagtaac cttatgccta gcaacatgcc aatctttaca agaggaaacc 180
 gtaagaaagg gccagccg 199

<210> 1054
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 1054
 tcgaccctgt gaagcaggag acagatgctg catttttact gttgtttgtc ctctgttttt 60
 gtagcatccc cggaacttc cccatcagcc aggggcttgt cccaccacc cttcacctgg 120
 ctttccagtt ggctgagacg ctgcttcac ttcattctggg tggcgttgta ctcagccagg 180
 aggcgtgcaa acctggtctg cagggcgctc agggaggacc ccag 224

<210> 1055
 <211> 390
 <212> DNA
 <213> Homo sapiens

<400> 1055
 cctcttatta gggctctggt agcggcgggc ggggaccctt ggggtctgga cgcaacggcg 60
 gcgggagcat gaacgcccct ccagccttcg agtcgttctt gctcttcgag ggcgagaaga 120
 agatcaccat taacaaggac accaaggtag ccaatgcctg tttattcacc atcaacaaag 180
 aagaccacac actgggaaac atcattaaat cacaactcct aaaagacccg caagtgcctat 240
 ttgctggcta caaagtcccc cacccttgg agcacaagat catcatccga gtgcagacca 300
 cgccggacta cagccccag gaagcctttg ccaacgccat caccgacctc atcagtgagc 360
 tgtccctgct ggaggagcgc tttcgggtgg 390

<210> 1056
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 21, 22, 230, 232, 377, 391
 <223> n = A,T,C or G

<400> 1056
 ccagcatcac cttttggtcc nnacactcca gggctgccag gagcaccagt gttacccgca 60
 ggacctgggg gcccatcctt gcttgagaa ccgctgggac ctgggggtcc tgggttacca 120
 ttactaccag gaggaccagg aagaccacga gcaccaggga agccagcagc accaggtcca 180
 ccaggactgc cacgttcacc tttgacacct tggggaccag gaggaccagn angtcagaa 240
 cctccagggg gtccctgcaac tccaggaggg cctccttcac ctttctcacc cggagcccct 300
 ctttctcctt taccaccagg ttcaccattc tgtccaggag caccaggga accagcaggt 360
 cctggagggc cagtttnacc tctctacca nggctaccac gaggtccagc tatacctgga 420
 agtccggggg caccacctc acccttacct 450

<210> 1057
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 1057
 tgagcggcgg cccggcaggt cctcgcttgg agggccccgg gcagcacagg gaggacgagc 60
 ttgtccagca gagggtctgg cagagggtcc cgcagaggtt tgggcagggg gtctgacatc 120
 cctggctcct gctctggctc tggctgccgg gatttgaca ggcccaggtg catacagatg 180
 ccgtttgagt caatctgggt ctggaagtag tcgatgacca gggggaagta gtcgtcaagc 240
 acttggttgc actggggcat gagcagctc aaggggagga cgttgcactc ctgctccagg 300
 aacttctca tcgtgtcctg gaaaatggcc tccttgg 337

<210> 1058

<211> 237
 <212> DNA
 <213> Homo sapiens

<400> 1058
 ctggggactg ggaatgctag catatggtat ctcaagttgg ctctcagaac taaacgggga 60
 taagggccta gaatggaaga gggaaccagc cagaccctca gtccttcctg tcttgactg 120
 ggagccacag atgtccctgt gatctgtcac tgccctgac tgggtcttca gccattaaag 180
 ctcaagtgtca tcttcagtca ccaacggggg tcttggtgtc cttccaaacc cctttgg 237

<210> 1059
 <211> 210
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 169, 170
 <223> n = A,T,C or G

<400> 1059
 agcccatccc cccggctccc tcctagtctg ccttgcgctc tctgtccccg ggtttcagag 60
 acaacttccc aaagcacaaa gcagtttttc cccctagggg tgggaggaag caaaagactc 120
 tgtacctact ttgtatgtgt ataataattt gagatgtttt taattattnn gattgctgga 180
 ataaagcatg tggaaatgac ccaaaaaaaaa 210

<210> 1060
 <211> 564
 <212> DNA
 <213> Homo sapiens

<400> 1060
 ctggccacag agcccagcaa gtccttcctg ggagagaaga gttagggctg atactgaag 60
 tctctttcac atctgggcac acgtctgcct tcaggctgta agaatttcac ttgtcgattg 120
 tttaaataaaa ccaggagaaa gcaatgcagg tctctgggaa tctcatccct tccataagga 180
 aaatgctctg ccaattcaag ttctattcag tcaggaagac agaaggattt aaggcttcgg 240
 tgacaattat aatcctctga gaaattatct ccccttaaag tcaagataag ataatagtgt 300
 ttactgtact ttctcttgac tcttgaaatc cctgggtattg ggtgtaggca acttgcacct 360
 gcaatgaagt ccgcaggaga ggaaggtctc tcctcccccg aaagctatcc caggtcacat 420
 gcgtggcgaa tgcccactga acctcggctc tcattggaagc aggaaagaca ccgagattca 480
 agccttctag taggttgagg acgctgtgct catggcatct tcggagattt tgggtactggc 540
 aggggtggat gcttgcaaaa tact 564

<210> 1061
 <211> 267
 <212> DNA
 <213> Homo sapiens

<400> 1061
 cctatggagg tgcctatgat gtcattgagc ctaagcacct ttgtgggtgat accaactatg 60
 cctggcccac cgcagagatt gcggtcatgg gagcaaaggg cgctgtggag atcatcttca 120
 aagggcatga gaatgtggaa gctgctcagg cagagtacat cgagaagttt gccaacctt 180
 tcctgcagc agtgcgaggg tttgtggatg acatcatcca accttcttcc acacgtgcc 240
 gaattctgtg tgacctggat gtcttgg 267

<210> 1062
 <211> 603
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 533, 592
 <223> n = A,T,C or G

<400> 1062
 ctgggtcatct tgtcatgtga agaccatctt cctacagagt ctaggctggc cgtcgttgaa 60
 gtcctcacca gtactacacc acttttcttc accaaccctc atcctattct tgagttgcag 120
 gatacacttg ctctctggaa gtgtgtcctt acccttctgc agagtgagga gcaagctgtt 180
 agagatgcag ccacggaaac cgtgacaact gccatgtcac aagaaaatac ctgccagtca 240
 acagagtttg ccttctgcca ggtggatgcc tccatcgctc tggccctggc cctggccgtc 300
 ctgtgtgatc tgctccagca gtgggaccag ttggcccctg gactgcccac cctgctggga 360
 tggctgttgg gagagagtga tgacctcgct gcctgtgtgg agagcatgca tcaggtggaa 420
 gaagactacc tgtttgaaaa agcagaagtc aacttttggg ccgagaccct gatctttgtg 480
 aaatacctct gcaagcacct cttctgtctc ctctcaaaag tccggctggc gtnccccaag 540
 ccctgagatg ctctgtcacc ttcaaaggat ggtgtcagag cagtgccacc tnctgtctca 600
 gtt 603

<210> 1063
 <211> 222
 <212> DNA
 <213> Homo sapiens

<400> 1063
 ccactcgtgga tcaactgagat gcagtggcgg tccccgtagc tggcccgtgg catgccaccc 60
 tggaagatgg tgaagggcaa cccctgccta gtggtcagcc ggaggattct ggtaatcgct 120
 ttgcaaggaa agggaccgta aggcacgagg ctgctggagg gctctggttg ctgggcttcg 180
 ctggacacgg gccactggca gtagctgccg tcagagtgc ag 222

<210> 1064
 <211> 72
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13, 14
 <223> n = A,T,C or G

<400> 1064
 gatgatcaat atnnactgga acacatgcat gcttttggaa tgtataatta cctgcactgt 60
 gattcatggg at 72

<210> 1065
 <211> 251
 <212> DNA
 <213> Homo sapiens

<400> 1065
 gtggccgtga tggatagcga caccacaggc aagctgggct ttgaggaatt caagtacttg 60
 tggaaacaaca tcaaaaagggtg gcaggccata taaaaacagt tcgacactga ccgatcaggg 120
 accatttgca gtagtgaact cccaggtgcc tttgaggcag cagggttcca cctgaatgag 180
 catctctata acatgatcat ccgacgctac tcagatgaaa gtgggaacat ggattttgac 240
 aacttcatca g 251

<210> 1066
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 1066
 ctggagatga tcttcaacaa gccagggtc aagtacaagc ctgtctgcaa ccagggtggaa 60
 tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattgtt 120
 ctggttgctt atagtgtctt gggatccac cgagaagaac catgggtgga cccgaactcc 180
 ccagtgtctt tggaggacct agtcctttgt gccttggcaa aaaagcacia gcgaacccca 240
 gccctgattg ccctgcgcta ccagctacag cgtgggggtt tggctctgg 289

<210> 1067
 <211> 301
 <212> DNA
 <213> Homo sapiens

<400> 1067
 ctgtagttga ctgaagtcgc taaacaggac ggatttaagt agaggtgata tgtccagtca 60
 ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggg agacatcagg 120
 caaagctctc catgttaata ttcatctgaa tatggataat taggggtggc agcaaaacta 180
 tcaactgttaa aatagtggag atttctgtct aggccatcta tggctttcat gtctctcgca 240
 gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
 g 301

<210> 1068
 <211> 255
 <212> DNA
 <213> Homo sapiens

<400> 1068
 ccagcagttc ctctttgcct tatattttgtg gtacgcccgg ccagccttca agatgggttt 60
 gtcaattcgg ccacctccag ccaccacacc aaccacagct ctgttggctg aggagataac 120
 cttcttggag ccggagggca gcttcacacg ggtcttcttg gtctcagggt tgtgggagat 180
 aacgggtggca tagttccctg atgcccgggc cagcttgcca cggctctccag gcttctcctc 240
 caggcagcac acgat 255

<210> 1069
 <211> 77
 <212> DNA
 <213> Homo sapiens

<400> 1069
 ctggacaggc tccagcaccg gcccaaacac gcccagacct cggcaggcac cacctgggtc 60
 tcccacccag aaagttc 77

<210> 1070

<211> 163
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 12, 108, 109, 137, 147, 148
 <223> n = A,T,C or G

<400> 1070
 ctgctgggat gncgtgccaag tttttcagcc ataaggtagc gaaatctagc agaatccaga 60
 ttacatccac ttccaatcac gcggtgtttg ggtaatccac ctagttnna ggtaacatac 120
 gtaagaatgt ccactgngtt ggaaacnca attatgatgc aat 163

<210> 1071
 <211> 246
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 14
 <223> n = A,T,C or G

<400> 1071
 ctgaccggac cggncatgcc cgtccggaac gtctataaga aggagaaagc tcgagtcac 60
 actgaggaag agaagaattt caaagccttc gctagtctcc gtatggcccg tgccaacgcc 120
 cggctcttcg gcatacgggc aaaaagagcc aaggaagccg cagaacagga tgttgaaaag 180
 aaaaaataaa gccctcctgg ggacttgga tcagtcggca gacaaaaaaa aaaaaaaaaa 240
 aacaaa 246

<210> 1072
 <211> 224
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 143
 <223> n = A,T,C or G

<400> 1072
 ctgccctgac agagcgctcc ttgatgggca tggactggaa aggatcccag gaatacaaga 60
 aggcagaaaa aaaagtttgg aagatcttta aatctgacag tgaagtggct ggttacatcc 120
 ggcaagcggg tgacttccat cangtaatta ttcgaggtgg aggacatatt ttaccctatg 180
 accagcctct gagagctttt gacatgatta atcgattcat ttat 224

<210> 1073
 <211> 301
 <212> DNA
 <213> Homo sapiens

<400> 1073
 ctgtagttga ctgaagtcgc taaacaggac ggatttaagt agaggtgata tgtccagtca 60

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ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggt agacatcagg 120
caaagctctc catgttaata ttcattctgaa tatggataat taggggtggct agcaaaacta 180
tcaactgtta aatagtggag atttctgtct aggccatcta tggctttcat gtcctctgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g 301

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<210> 1074
<211> 132
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 41, 47, 56, 69, 78, 93
<223> n = A,T,C or G

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<400> 1074
caagcttttt tttttttttt tttttttttt ttcgctcaaa nactttnttt tattantaca 60
tgggctggna ttgatggnaa gggacaaatg tanttggcaa ccatgggttag catcggtatgc 120
ccatcccaat gg 132

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<210> 1075
<211> 301
<212> DNA
<213> Homo sapiens

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<400> 1075
ctgtagttga ctgaagtcgc taaacaggac ggattttaagt agaggtgata tgtccagtca 60
ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggt agacatcagg 120
caaagctctc catgttaata ttcattctgaa tatggataat taggggtggct agcaaaacta 180
tcaactgtta aatagtggag atttctgtct aggccatcta tggctttcat gtcctctgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g 301

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<210> 1076
<211> 436
<212> DNA
<213> Homo sapiens

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<400> 1076
ctgctgggat gaatgccaa gttttcagcc ataaggtatg gaaatctagc agaatccaga 60
ttacatccac ttccaatcac gcggtgtttg ggtaatccac ctagtttcca ggtaacatac 120
gtaagaatgt ccaactgggt ggaaaccaca attatgatgc aatcaggact gtacttgacg 180
atctgaggaa taatgaattt gaagacatta acatttctct gcaccagatt gagccgactc 240
tccccttctt gctgacggac tcttgacgtt actactacaa tottagaatt ggcggtcaca 300
gaataatctt tatctgccac aatttttaggt gtctgaagaa ataagctccc atgctgcaga 360
tccatcattt ctcttttaag cttatcttcc aaaacatcca caagagcaag ttcattcagcc 420
agagactttc ccagaa 436

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<210> 1077
<211> 256
<212> DNA
<213> Homo sapiens

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<400> 1077
 ctgaagatta ataggaaaca gtgaaaaagc aacgtcctgt gatcagtaac tttaaagaca 60
 agcttggttc tctctttctg gcactactga cattcccacc attctagctt ccgaattctg 120
 gaaaaagaga agatgattaa caaaaataga gaatgtagaa acttctgggt ttgtgcctac 180
 aggattggca ccagaccctc agtgcctact tgctccatct acaaggcagc acccctccca 240
 gaggcagcca gggagg 256

<210> 1078
 <211> 202
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8, 10, 26, 67, 71, 77, 84, 93, 127, 133, 144
 <223> n = A,T,C or G

<400> 1078
 ctgtgctncn caaccagatc catgtnaagt gccccgcccc gagaaggag ccagggggag 60
 ctgactncag ncaacancca gtgnccggat gancaccaac atgtgagggg tgaaccttgg 120
 cctccangac atntgcaccc cctncccacc tccacggacc tcggacctcc aggcggctca 180
 gtgctgcctg cggcccagct aa 202

<210> 1079
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 1079
 ggcgttctcg ggcaccgtca ggcttaagtc cactccccgc cctaagttct ctgtgtgtgt 60
 cctgggggac cagcagcact gtgacgaggc taaggccgtg gatatcccc acatggacat 120
 cgaggcgctg aaaaaactca acaagaataa aaaactggtc aagaagctgg 170

<210> 1080
 <211> 494
 <212> DNA
 <213> Homo sapiens

<400> 1080
 cctgcggcaa agagatgcgc ttattgagaa acatggctta gttataatcc ccgatggcac 60
 tcccaatggg gatgtcagtc atgaaccagt ggctggagcc atcactgttg tgtctcagga 120
 agctgctcag gtcttgaggt cagcaggaga agggccatta gatgtaaggc tacgaaaact 180
 tgctggagag aaggaagaac tactgtcaca gattagaaaa ctgaagcttc agttagagga 240
 ggaacgacag aaatgctcca ggaatgatgg cacagtgggt gacctggcag gactgcagaa 300
 tggctcagac ttgcagttca tcgaaatgca gagagatgcc aatagacaaa ttagcgaata 360
 caaatttaag ctttcaaaag cagaacagga tataactacc ttggagcaaa gtattagccg 420
 gcttgaggga caggttctga gatataaaac tgctgctgag aatgctgagg aaagttgaag 480
 atgaattgaa agca 494

<210> 1081
 <211> 123
 <212> DNA
 <213> Homo sapiens

<400> 1081
 ctgctgctat taagttgcaa gctctacagc tagctacatg actgatggat cagtttgaga 60
 tttgttcctt tgtcaaaagt ttaactctga tagaagggtg gctcacatt ctgatgtttg 120
 gac 123

<210> 1082
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 1082
 cctgcacttg aacatggctt tggttttaag caacttctct accctgacct tctctctggg 60
 acagcgtttc gggaggtttc ttggcctcac tgagagggat gtggagctgc tgtaccccgt 120
 caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180
 caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240
 tctagagaag tttccacact ggaccaatac ggaattccga tacctggagg atggagg 297

<210> 1083
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 1083
 ctggggccac aggacaccac cagcttggat cggcctcgcc gtgtggaata cttttagat 60
 aagcaactcc aagtaaaggc tgtcacctgt gggccgtgga acacctacgt gtatgctgtg 120
 gagaaaggga agagctgaca tgtgtacgta tatgtatatg caacacctgt gagaccccca 180
 ttcagggtcaa ggaaaacat tgccctgcacc ccaagggcc catatttgcc cctccccatc 240
 acagtctctc ccttcacct caagcacggt cctaaacttg tctgcacttt agaaacacct 300
 ggagagcatt gaaaactctg ctgcctaagg tcagcatcaa tcaaaacaat gaaatcaatg 360
 aaacaatgaa accagagctt ctagggtgtg ggccctggata gtggtagatt caaagctcca 420
 cccacctcat cccaggtaca tttgatgtgc ag 452

<210> 1084
 <211> 301
 <212> DNA
 <213> Homo sapiens

<400> 1084
 ctgtagttga ctgaagtgcg taaacaggac ggatttaagt agaggtgata tgtccagtca 60
 ccggcataga gacgtcctct gcgtcacat ccacacacag ggcttctggt agacatcggg 120
 caaagctctc catgttaata ttcattctgaa tatggataat taggggtggc agcaaaacta 180
 tcaactgttaa aatagtggag atttctgtct aggccatcta tggtttcat gtcctctgca 240
 gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
 g 301

<210> 1085
 <211> 369
 <212> DNA
 <213> Homo sapiens

<400> 1085
 ctgtttccca tgggccacca ggcggtcag gacagcaaac gtctcatccc ctctcaggat 60
 gtactttctc atgtcctgct cgatccactg gtacatgagg cccttcacat gcacgtctcg 120
 gatggcgtcc gtcacgtcct tgtagagatg tgcttggtca aactccaggc tgtggcccag 180

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aaagtagtcc accacacagg acagcagagc catctccggt agcgagaaga tgtccatgaa 240
ctgcttaatg gagggaccct tgccatagaa gccactcacc tggatatagt ggatgtgctg 300
ggtacccccca tacagctcaa tcacctcctc gtctggcaca ggctggaggc ccctgtaggc 360
tgtccccag                                     369

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<210> 1086

<211> 316

<212> DNA

<213> Homo sapiens

<400> 1086

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cctcagaggt ttctccacag tcctcttctg ggcaaattct tgtttcttca catgccggac 60
tagcttaaga ccaatgcagt agcttatctc caagccttgc aaagtatata atatctaaga 120
ggaaagggtt tgtcatccca gcgttggtcca ctttggtggg ctttgtaggt agacggagcc 180
acactacagg cagggatga gcagagggat gtatggagtg tgggtgactc tgagcctcac 240
tgccgctgca aggtggggaa actgtaagtg aaccctgtg ggtgcggggg agggatatccg 300
gtgcgcaggg aggtgg                                     316

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<210> 1087

<211> 329

<212> DNA

<213> Homo sapiens

<400> 1087

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cctgcagggg atgggacctt ccagaagtgg gcgtctgtgg tgggtgccttc tggacaggag 60
cagagataca cctgccatgt gcagcatgag ggtctgccc agccctcac cctgagatgg 120
gagccgtctt cccagccac catcccac gtgggcatca ttgctggcct ggttctcttt 180
ggagctgtga tcgctggagc tgtggtcgct gctgtgatgt ggaggaggaa gagctcagat 240
agaaaaggag ggagctactc tcaggctgca agcagtga ca gtgccaggg ctctgatatg 300
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<210> 1088

<211> 342

<212> DNA

<213> Homo sapiens

<400> 1088

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tgcacggatg gcggcagtgt tgaaccagg aggtgaacc cggccacca cggaagatga 180
gtgcatggca accgcctgcc ttcacgtcgc tccacttggg aacccaagg tctgggctgt 240
tctaggtatt gcttcacgtg cccagcaag cccttaacaa gagggcctgg ttccctgaag 300
aaccaatccc aggaaggggc cttgatccct ccgccttgct ga                                     342

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<210> 1089

<211> 51

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 18

<223> n = A,T,C or G

<400> 1089
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<210> 1090
<211> 515
<212> DNA
<213> Homo sapiens

<400> 1090
cctggggagg ccctagggga gcaccgtgat ggagaggaca gagcaggggc tccagcacct 60
tctttctgga ctggcggtca cctccctgct cagtgccttg gctccacggg caggggtcag 120
agcactccct aatttatgtg ctatataaat acgtcagatg tacatagaga tctatttttt 180
ctaaaacatt cccctcccca ctctctccc acagagtgtg ggactgttcc aggcctcca 240
gtgggctgat gctgggaccc ttaggatggg gctcccagct cctttctcct gtgaatggag 300
gcagagacct ccaataaagt gccttctggg ctttttctaa cctttgtctt agctacctgt 360
gtactgaaat ttgggccttt ggatcgaata tggtaagag gttggagggg aggaaaatga 420
aggtctacca ggctgagggt gagggcaaag gctgacgaag agggaaagt acagatttcc 480
tgtagcaggt gtgggcttac agacacatgg actgg 515

<210> 1091
<211> 277
<212> DNA
<213> Homo sapiens

<400> 1091
gcgctccgga gccacagggt gtcattggctg ccagagcgct ctgcatgctg gggctgggtcc 60
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cogtgccagc caaggacagg gtggactgcg gctaccccca tgtaaccccc aaggagtgc 180
acaaccgggg ctgctgcttt gactccagga tccctggagt gccttggtgt ttcaagcccc 240
tgcaggaagc agaatgcacc ttctgaggca cctccag 277

<210> 1092
<211> 368
<212> DNA
<213> Homo sapiens

<400> 1092
cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
ttatttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
ggctcactgc aacctctgcc tccctgggctg cagtgattct cctgcgttca agtaattctc 180
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
tttgtatttt tagtagaaat ggggtttcac catgttggcg aggetggtct cgaactcctg 300
acctcaagga tcctcctgcc tcggcctcct aagggtgctg gattgcaggt gtgagccacc 360
acgtctgg 368

<210> 1093
<211> 459
<212> DNA
<213> Homo sapiens

<400> 1093
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ctttgttgcc ccacacagcc tcctgctgca ggtgcttttg aaagagatgc tgccctggag 120
ctggtgaatc tgtggaccac attcaagggt gtggcacagg catcttccca tccttttcac 180

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tccgaatcgc tggcgacaca ttctcctttc cagctaggaa agggttcctc gcggtctggtt 240
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ttttgtgttt gctgtctacg ctggagtcct gaactgtggg tagaaaacac gacctggctt 360
tgtagaaagg acacagggct gttttatgaa ctaagcgggt aggctcaggt ggcggctctc 420
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<210> 1094

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 590

<223> n = A,T,C or G

<400> 1094

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cattggtaca ggggaacata tagatgactt tgaacctttc aaaacacagc cttttattag 120
caaacttctt ggtatgggag acattgaagg actgatagat aaagtcaacg agttgaagtt 180
ggatgacaat gaagcactta tagagaagtt gaaacatggt cagtttacgt tgcgagacat 240
gtatgagcaa tttcaaaaata tcatgaaaat gggccccctc agtcagatct tggggatgat 300
ccctggtttt gggacagatt ttatgagcaa aggaaatgaa caggagtcaa tggcaaggct 360
aaagaaatta atgacaataa tggatagtat gaatgatcaa gaactagaca gtacggatgg 420
tgccaaagtt tttagtaaac aaccaggaag aatccaaaga gtagcaagag gatcgggtgt 480
atcaacaaga gatgttcgag aacttttgac acaatatacc aagtttgac agatggtaaa 540
aaagatggga ggtatcaaag gacttttcaa aggtgggcga catgtctaan aatgtgagcc 600
agtcacagat 610

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<210> 1095

<211> 232

<212> DNA

<213> Homo sapiens

<400> 1095

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ccttattttct cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60
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atagcggctg caccatcggg atgtcctgat ccaacatoga ggtcgtaaac cctattgttg 180
atatggactc tagaatagga ttgcgctggt atccctaggg taacttgttc cg 232

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<210> 1096

<211> 377

<212> DNA

<213> Homo sapiens

<400> 1096

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ccacgtcat ggaaaccacc caaggacagc cagagtccac attccctggc aagctgggtg 60
tattcttcca aaagtttccc acccagtggg tcagacaggt gtagcgtctc tgcagggtcc 120
cgtgcaatga agtcaaatgc ctccaggcagg aaagccaggc aggcacccag tctggcagcc 180
tctcgaacca gccagcaca tgttttaaaag ttctgttgct tgtctggcgt cgatgttacc 240
tggcacacag ccaccagggg cagttcgcag gaggaagagg agatagccat ggctctgggc 300
ctgggctgag cacaaagtac tgagagttga ggtatccgga gtccaggaca cagaaggagc 360
aggaatctgt gaggagg 377

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<210> 1097
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 1097
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 ctacaccaag aacttccgtc tgtcccagga tgacatcaag ggcattcagg agctctatgg 120
 ggcctctcct gacattgacc ttggcaccgg ccccaacccc aactggggcc ctgtcactcc 180
 tgagatctgc aaacaggaca ttgtatttga ttggcatcgt cagatccgtg gtgagatctt 240
 cttcttcaag gaccggttca tttggcggac tgtgacgcca cgtgacaagc ccatgggggc 300
 cctgctggtg g 311

<210> 1098
 <211> 404
 <212> DNA
 <213> Homo sapiens

<400> 1098
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 aaaccttttc acattctttc tgtgatccaa atttgttttc gtttccacca caacctccat 120
 accagaatct tgcacagctt ttggtgtttg gatcatagta ccattttaat atgaaatccc 180
 tgcaagtccc ttcgtctttc ggcaacttgc atatatctgt ttcagtgaga gccaatggtt 240
 ctgtgctcac cattagattg atggttgaac tagaagctga ccttgctggc tgtggaggtg 300
 ggggctgaga tttctttgta ctgaaacttc cgtggtaggt ggctctgacc tgagacctca 360
 ggtagcagac cacagccaca tggatatgtc gccacgcgag cagg 404

<210> 1099
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 1099
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 caaggaccag gccaaagggg cagggcctcc tttggagggg ttgaggggta catcctcggc 120
 tgggtgtttgc atccaggggt ccagcaggat ctcttccagt gagggtcggg aagaagggtt 180
 gggggccagg caccggcgga ttagggcaca gcagtctggg gagacatggg ctgggaagtg 240
 gagctcagct tccagaatct cctggtcctc ctcaaaggga atgtccccac acaccatgtc 300
 atagaggagg atgcccagt accagacagt ggccgggagt gcatggtact ggtgtcgaga 360
 gatccactct ggggggctgt acacccttgt cccatcaaag tcagtgtagg gttcatcatg 420
 aagcagggca ccaggaacca aa 442

<210> 1100
 <211> 191
 <212> DNA
 <213> Homo sapiens

<400> 1100
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 ccaataacca ggtgcttggc aaaatcgagc gggccattgg cctcaagctc cggggaaagg 120
 acattggaaa gcccatcgag aaggggccta gggcgaaatg aacacaaagc ctcgaaatca 180
 gtgogctcca g 191

<210> 1101

<211> 178
 <212> DNA
 <213> Homo sapiens

<400> 1101
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 agacttataa gacagcagtg gagacggcag ttctgctact gcgaattgat gacatcgttt 120
 caggccacaa aaagaaaagg gatgaccaga gccggcaagg cggggctcct gatgctgg 178

<210> 1102
 <211> 209
 <212> DNA
 <213> Homo sapiens

<400> 1102
 agccaggcta gtgacagaaa tggattcgaa atatcagtgt gtgaagctga atgatgggtca 60
 cttcatgcct gtcctgggat ttggcaccta tgcgcctgca gaggttccta aaagtaaagc 120
 ttttagaggcc accaaattgg caattgaagc tggcttccgc catattgatt ctgctcattt 180
 atacaataat gaggagcagg ttggactgg 209

<210> 1103
 <211> 396
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 351
 <223> n = A,T,C or G

<400> 1103
 ctatagggct cgagggccgc ccgggcaggt ggtgcctcta atactgggtga tgctagaggt 60
 gatgtttttg gtaaacaggc ggggtaagat ttgccgagtt ccttttactt tttttaacct 120
 ttcttatga gcatgcctgt gttgggttga cagtgggggt aataatgact tgttggttga 180
 ttgtagatat tgggctgtta attgtcagtt cagcgtttta atctgacgca ggcttatgca 240
 gaggagaatg ttttcatggt acttatacta acattagttc ttctataggg tgatagattg 300
 gtccaattgg gtgtgaggag ttcagttata tgtttgggat tttttaggta ntgggtgttg 360
 agcttgaacg ctttcttaat tggtggtctgc tttagg 396

<210> 1104
 <211> 342
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 224, 226, 302
 <223> n = A,T,C or G

<400> 1104
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 aactgaatga gcctccactg gtccacacag cagccagcct ctttaaggag atgtgttacc 120
 gataccggga agacctgatg gcgggaatca tcatcgacag ctggggacct caagaaggag 180
 ggcaggtgta ctacgtgcct atggggggta tgatggtaag gcantncttt gccattggag 240

gctccgggag ctccctacatc tatggctatg ttgatgctac ctaccgggaa ggcattgacca 300
 angaagagtg tctgcaattc actgccaatg ctctcgcttt gg 342

<210> 1105

<211> 551

<212> DNA

<213> Homo sapiens

<400> 1105

ctggggccac tgtcggcatc atgattggag tgctgggttg ggttgctctg atatagcagc 60
 cctgggtgtag tttcttcatt tcaggaagac tgacagttgt tttgcttctt ccttaaagca 120
 tttgcaacag ctacagtcta aaattgcttc tttaccaagg atattttacgg aaaagactct 180
 gaccagagat cgagaccatc ctagccaaca tcgtgaaacc ccatctctac taaaaatata 240
 gaaatttagct ggacatgggt gcatgtgcct gtaatcccag ctactcagga ggctgaggca 300
 ggagaactgc ttgaacaggg acccgggagg cggagattgg agtgagccga gatcgcgcca 360
 ctgcactcca gtctgggcta cacagtgaga ctctgtctca agaaaaataa acagaagaat 420
 tgggggttg gggtgggaaa cagtgtttcc aggcagagag aacagcacgt acaaaggaga 480
 ctgttgggag ggtaaataa aataattcat gtaagggtact tagtaccaca catgaatttc 540
 acaagcagca g 551

<210> 1106

<211> 280

<212> DNA

<213> Homo sapiens

<400> 1106

ctgctcttca cacagggttc tggggaaaac aaggaagaga tcatcaatta tgaatttgac 60
 accaaggacc tgggtgtgct gggcctgagc agcatcggtg gcgtctggta cctgctgagg 120
 aagcactgga ttgccaacaa cctttttggc ctggccttct cccttaatgg agtagggctc 180
 ctgcacctca acaatgtcag cactggctgc atcctgctgg gcggactctt catctacgat 240
 gtcttctggg tatttggcac caatgtgatg gtgacagtgg 280

<210> 1107

<211> 570

<212> DNA

<213> Homo sapiens

<400> 1107

ctgattagtg tctaaggaat ggtccaatac tgttgccctt ttccttgact attacactgc 60
 ctggaggata gcagagaagc ctgtctgtac ttcattcaaa aagccaaaat agagagtata 120
 cagtcctaga gaattcctct atttggttcag atctcataga tgacccccag gtattgtctt 180
 ttgacatcca gcagtccaag gtattgagac atattactgg aagtaagaaa tattactata 240
 attgagaact acagctttta agattgtact tttatcttaa aagggtggta gttttcccta 300
 aaatacttat tatgtaaggg tcattagaca aatgtcttga agtagacatg gaatttatga 360
 atggttcttt atcattttct tcccccttt ttggcctcct ggcttgcttc cagttttagg 420
 tcttttagtt tgcttctgta agcaacggga acacctgctg agggggctct tccccctatg 480
 tatacttcaa gtaagatcaa gaatcttttg tgaaattata gaaatttact atgtaaatgc 540
 ttgatggaat tttttcctgc tagtgtagct 570

<210> 1108

<211> 386

<212> DNA

<213> Homo sapiens

<400> 1108
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 ttacatcaaa taagcccaca gacaaactcc gtgccttgcc tctgtgggta tctttacaat 120
 acttgggact tgatggggtt gtggagagga tcaagcatgc ctgtcaactg agtcaacggt 180
 tgcaggaaaag tttgaagaaa gtgaattaca tcaaaatcct ggtggaagat gagctcagct 240
 cccagtggt ggtgttcaga tttttccagg aattaccagg ctcagatccg gtgtttaaag 300
 ccgtcccagt gcccaacatg acaccttcag gagtcggccg ggagaggcac tcgtgtgacg 360
 cgctgaatcg ctggctggga gaacag 386

<210> 1109
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 1109
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 tcacccgaaa gcctgggtgc tacacgaaag tctgcaaata tgtggactgg atccaggaga 120
 cgatgaagaa caattagact ggacccaccc accacagccc atcaccctcc atttccactt 180
 ggtgtttggt tcctgttcac tctgttaata agaaacccta agccaagacc ctctacgaac 240
 attctttggg cctcctggac tacaggagat gctgtcactt aataatcaac ctggggttcg 300
 aatcagtgta gacctggatt caaattctgc cttgaaatat tgtgactctg ggaatgacaa 360
 cacctggttt gttctctgtt gtatccccag ccccaaagac agtccttg 409

<210> 1110
 <211> 215
 <212> DNA
 <213> Homo sapiens

<400> 1110
 ccattttgga gtgtgtccat tgggtagcaa tgtggaaacc accagggcct ttgtggagaa 60
 aatggagggg gttgaggagag tcccaggagg ggcttatttg agggcctttg ccacttgctc 120
 ataggcgagc tcgatctcct catcatctgg acaggtggaa gcgaattctt cccgggcgta 180
 ggcattgctc aagtaccgat gcaactcccc gaagg 215

<210> 1111
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 1111
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 ggctcactgc aacctctgcc tcctgggctg cagtgattct cctgcgttca agtaattctc 180
 ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
 tttgtatttt tagtagaaat ggggtttcac catgttggcg aggctggctc cgaactcctg 300
 acctcaag 308

<210> 1112
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 1112
 ccactggctc cctgggccag ggccctgggg ccgcttgtgg gatggcctac accggcaaat 60

acttogacaa ggccagctac cgagtctatt gcttgctggg agacggggag ctgtcagagg 120
gctctgtatg ggaggccatg gccttcgcca gcatctataa gctggacaac cttgtgg 177

<210> 1113
<211> 646
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 529, 580, 622
<223> n = A,T,C or G

<400> 1113
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gtcccaggtc accttgaagg agtctgggtc tgtactgggtg aaaccacag agaccctcac 120
gctgacctgc accgtctctg ggttttcact cagtaatat agagtgggtg tgagttggat 180
ccgtcagccc ccagggaagg ccctggagtg gtttgcatatc attttttcga ctgacgaaaa 240
atccttcaat tcactctctga agaacaggct caccatctcc aaggacacct ctaaaagcca 300
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gctctctatt tacttcgggg agttagaaac ctaccaatac atggacgtct ggggcaaagg 420
gaccaccgcc accgtctcct cagcatcccc gaccagcccc aaggtcttcc cgctgagcct 480
ctgcagcacc cagccagatg ggaacgtggg catcgccctgc ctggtccang gcttcttccc 540
ccaggagcca ctcagtgtga cctggagcga aagcggacan ggcgtgaccg ccagaaactt 600
ccccaccag ccaggatgcc tncggggacc tgtacaccac gagcag 646

<210> 1114
<211> 420
<212> DNA
<213> Homo sapiens

<400> 1114
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acagagtgtt cgctcgcgct ggagaaggct ctgctcagcc ctgagagtcc cttcctgccc 120
caccgatact ggcaacttta aaaggaagct gaccgcacag tgtccagacg aattggcccc 180
cagaagatgg ggagttctgt cctgcccttc tgtgtctgog tgacctcacc cagcctagga 240
gggaggtgca ttcagggtag atttgcctct cattcaaagt tctggggctt tgggtgga 300
acagccagct ttggcgctgt tggggagact cctccagacc aggaacccca gaaggagaca 360
gagcctgcca catectccca cgccaggccc tgggcccagg tgattggact gagaatttgg 420

<210> 1115
<211> 416
<212> DNA
<213> Homo sapiens

<400> 1115
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tacactcagg gagcatgagt tgcctatttg ggtgagaaaa tcccatgtta cagtgcgac 120
gctgggcacg ttttgagta attccagcca ctgctatgta agtggtttta attcaggggt 180
gtcttctacg ttttcactct ctgaatatct tgtgacggtg caggttttgag caaaactggc 240
atgaaatgag agctgtttta gatgaagatt gcaagatgga tggccttggcc cacagtggca 300
gtgggttggg ggtggaatgt ggacaattag gaaaaaggca tgtcattcta tctggctcct 360
ggagaggcag atagtctctg gggcttttggg gtcacagttc ccaaaagcaa ggttgg 416

<210> 1116
 <211> 382
 <212> DNA
 <213> Homo sapiens

<400> 1116
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 atagcggctg caccatcggg atgtcctgat ccaacatcga ggctcgtaaacc cctattgttg 180
 atatggactc tagaatagga ttgcgctgtt atccctaggg taacttggtc cgttggtcaa 240
 gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg 300
 ctcgagggtt ggggttctgct ccgaggtcgc cccaaccgaa aatttttaat gcaggccttg 360
 tagtttagga cctgtgggtt tg 382

<210> 1117
 <211> 370
 <212> DNA
 <213> Homo sapiens

<400> 1117
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 ttttcatttg ctttgtttg gattacttac atcagtattt tatgttgatc agaaagaaag 180
 gattcaatta gctattgttc ggtaataaaa aatgtcagcc actgtaggag taagttggat 240
 gtccagcctt tttagattgc ttaacttgga aacactggac tgggagcgtt ggctcatgcc 300
 tgtgatccca gcactctggg aggccaaaggc aggcagatca ctggagggtca ggagtttgag 360
 accaacctgg 370

<210> 1118
 <211> 494
 <212> DNA
 <213> Homo sapiens

<400> 1118
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 caagacgaga agaccctatg gagctttaat ttattaatgc aaacagtacc tgacaaaccc 120
 acaggctcta aactaccaga cctgcattaa aaatttcggg tggggcgacc tcggagcaga 180
 acccaacctc cgagcagtag atgctaagac ttcaccagtc aaagcgaact actatactca 240
 attgatccaa taacttgacc aacggaacaa gttaccctag ggataacagc gcaatcctat 300
 tctagagtcc atatcaacaa tagggtttac gacctcgatg ttggatcagg acatcccgat 360
 ggtgcagccg ctattaaagg ttcgtttgtt caacgattaa agtcctacgt gatctgagtt 420
 cagaccggag taatccaggt cggtttctat ctacttcaaa ttcctccctg tacgaaagga 480
 caagagaaat aagg 494

<210> 1119
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 1119
 ccttatgact acaacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60
 tcggggcctc cctccaagga gattctgacc ctgaagcagg tcaggaggtt cctgaaggat 120
 ggagacgatg tcatcatcat cgggggtctt aagggggaga gtgaccacgc ctaccagcaa 180


```
taccaggatg ccgctaacaa cctgagagaa gattacaaat ttcaccacac tttcagcaca 240
gaaatagcaa agttcttgaa agtctcccag gggcagtcgg ttgtaatgca gectgagaaa 300
ttccagtcca agtatgagcc ccggagccac atgatggacg tccagggctc caccaggac 360
tcggccatca aggacttcgt gctgaagtac gcctgcccc tggttgg 407
```

<210> 1120

<211> 548

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 513

<223> n = A,T,C or G

<400> 1120

```
ccccagagga cccgttggac ccagtggacc tcctggcaaa gatggaacca gtggacatcc 60
aggtccatt ggaccaccag ggcctcgagg taacagagggt gaaagaggat ctgagggctc 120
cccaggccac ccagggcaac caggccctcc tggacctcct ggtgccccctg gtccttgctg 180
tggttggtgtt ggagccgctg ccattgctgg gattggagggt gaaaaagctg gcggttttgc 240
cccgtattat ggagatgaac caatggattt caaaatcaac accgatgaga ttatggcttc 300
actcaagtct gttaatggac aaatagaaag cctcattagt cctgatgggt ctcgtaaaaa 360
cccagctaga aactgcagag acctgaaatt ctgccatcct gaactcaaga gtggagaata 420
ctgggttgac cctaaccaag gatgcaaatt ggatgctatc aaggtattct gtaatatgga 480
aactggggaa acatgcataa gtgccaatcc ttngaattgt ccacggaac actggtggac 540
agattcta 548
```

<210> 1121

<211> 278

<212> DNA

<213> Homo sapiens

<400> 1121

```
cggccgaggt ccgccatggc gtgtgctcgc ccactgatat cgggtgtactc cgaaaagggg 60
gagtcattctg gcaaaaatgt cactttgcct gctgtattca aggtcctat tcgaccagat 120
attgtgaact ttgtttacac caacttgccg aaaaacaaca gacagcccta tgctgtcagt 180
gaattagcag gtcacagac tagtgctgag tcttggggta ctggcagagc tgtggctcga 240
attcccagag ttcgaggtgg tgggaactcac cgctctgg 278
```

<210> 1122

<211> 591

<212> DNA

<213> Homo sapiens

<400> 1122

```
ctgcagcggc agaggcagca tccagcggcg gcgccagcag ttccagtcg ttgctttact 60
ttttgcttca ccgacatagt cattatgccg aagagaaagt ctccagagaa tacagagggc 120
aaagatggat ccaaagtaac taaacaggag ccacaagac ggtctgccag attgtcagcg 180
aaacctgctc caccaaaacc tgaacccaaa ccaagaaaaa catctgctaa gaaagaacct 240
ggagcaaaga ttagcagagg tgctaaaggg aagaaggagg aaaagcagga agctggaaag 300
gaaggcacag aaaactgaat ctgtagataa cgaggagagaa tgaattgtca tgaaaaattg 360
gggttgattt tatgtatctc ttgggacaac ttttaaaagc tatttttacc aagtattttg 420
taaagtctaa ttttttagga ctctactagt tggcatacga aaatatataa ggatggacat 480
tttatcgtct catagtcatg ctttttggaa atttacatca tectcaagta aaataaatat 540
```

cagttaaata ttggaagctg tgtgtaagat tgattcagca ttccatgcac t 591

<210> 1123

<211> 454

<212> DNA

<213> Homo sapiens

<400> 1123

```
ccaattgaaa caaacagttc tgagaccgtt cttccactac tgattaagag tgggggtggca 60
ggatttaggg ataattattca tttagccttc tgagctttct gggcagactt ggtgaccttg 120
ccagctccag cagccttctt gtccactgct ttgatgacac ccaccgcaac tgtctgtctc 180
atatcacgaa cagcaaagcg acccaaaggt ggatagtctg agaagctctc aacacacatg 240
ggcttgccag gaaccatata aacaatggca gcatcaccag acttcaagaa tttagggcca 300
tcttcagct ttttaccaga acggcgatca atcttttctc tcagctcagc aaacttgcac 360
gcaatgtgag ccgtgtggca atccaatata ggggcatagc cggcgcttat ttggcctgga 420
tggttcagga taatcacctg agcagtgaag ccag 454
```

<210> 1124

<211> 219

<212> DNA

<213> Homo sapiens

<400> 1124

```
cctgctccag agcacggctg accatttctg ctccgggata tcagctcccg ttccccaagc 60
acactcctag ctgctccagt ctacagcctg gcagcttccc cctgcctttt gcacgtttgc 120
atccccagca tttcctgagt tataaggcca caggagtgga tagctgtttt cacctaaagg 180
aaaagcccac ccgaatcttg tagaaatatt caaactaat 219
```

<210> 1125

<211> 246

<212> DNA

<213> Homo sapiens

<400> 1125

```
ccagagctgg gcccaagctg cgctggaatc gcagcaggag aggggagtgg gctggttctt 60
cccaccactt cccaggctct gacagccgag actcatttcc aaggcacagc agctttctaa 120
agggactgag tttggactgg gttttggacc tccaggggct ggagcttcat cacctgggca 180
gtgtcttttc tcagagagca ggtttcttta tagtttggaa ataaatgggt cacggttcaa 240
aagaaa 246
```

<210> 1126

<211> 227

<212> DNA

<213> Homo sapiens

<400> 1126

```
ccattgttcc cgtgcatcga agcttgcagg cagcttcagg tcctcggtaa acataactct 60
ctgggggtggc ttggggccac ccaggaaggt accacatagc ctcttcaagt agctcatgtc 120
cacgttgtag aagtgtgtggc cggcctgcca cgtgggtattc cgtttgttga catagttgac 180
cagctcatcc gacaggggat ggaaagaggg cctgctccgg gcattgg 227
```

<210> 1127

<211> 377

<212> DNA

<213> Homo sapiens

<400> 1127

```
cctgccgtcg atgccaggga ggccgacagg accttctttt ccagcggggc cgatatttcc 60
aggggaacca ggaagacctc tgggtcccat gagaccaggc tcccagggc gaccagcatc 120
tccattaggt cctcggaactc cagcagggcc acttgacca cgactaccag gagggcccat 180
gacgccagct ctgccatcag ctccaggaag accacgagaa ccaggactac ctctcagccc 240
aggaggtcct ggagggccgg cagatccagc ttcccatta gggcctctct ttcttcttcc 300
accactggga ccaggaggac cttggggccc agcagagccg ggctcaccct tggtaccgct 360
ctctcctttg gagccag 377
```

<210> 1128

<211> 253

<212> DNA

<213> Homo sapiens

<400> 1128

```
gagagctatt gctttgttaa gatataaaaa ggggtttctt tttgtcttcc tgtaagggtgg 60
acttccagct tttgattgaa agtcttaggg tgattctatt tctgctgtga tttatctgct 120
gaaagctcag ctgggggttg gcaagctagg gaccattcc tgtgtaatac aatgtctgca 180
ccaatgctaa taaagtccca ttctctttta tgagaaagaa aaagacactg tccttttaag 240
tgctgcagta tgg 253
```

<210> 1129

<211> 314

<212> DNA

<213> Homo sapiens

<400> 1129

```
ccaagagcta caatgagcag cgcacacagc agaacgtgca ggtgtttgaa ttccagttga 60
cttcagagga gatgaaagcc atagatggcc taaacagaaa tgtgcatat ttgacccttg 120
atatttttgc tggcccccac attatccatt ttctgatgaa tattaacatg gagggcattg 180
catgaggtct accagaaggc cctgcgtgtg gatgggtgaca cagaggatgg ctctatgctg 240
gtgactggac acatcgcttc tgggttaaata tctcctgctt ggtgatttca gcaagctaca 300
gcaaagccca ttgg 314
```

<210> 1130

<211> 239

<212> DNA

<213> Homo sapiens

<400> 1130

```
ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagtcag 60
cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct gcaggcgcat 120
agggtgcaaa tcccaggaca ggcatgaagt gaccatcatt cagcttcaca cactgatatt 180
tcgaatccat ttctgtcact agcctggcta gcaaagtgtt ctctctccct cacaggcta 239
```

<210> 1131

<211> 402

<212> DNA

<213> Homo sapiens

<400> 1131

```
aaggagtccct gcttatcaca atgaatgttc tcctgggcag cgttgtgatc tttgccacct 60
```

```

tcgtgacttt atgcaatgca tcatgctatt tcatacctaa tgagggagtt ccaggagatt 120
caaccaggaa atgcatggat ctcaaaggaa acaaacaccc aataaactcg gagtggcaga 180
ctgacaactg tgagacatgc acttgctacg aaacagaaat ttcatgttgc acccttggtt 240
ctacacctgt gggttatgac aaagacaact gccaaagaat cttcaagaag gaggactgca 300
agtatatcgt ggtggagaag aaggacccaa aaaagacctg ttctgtcagt gaatggataa 360
tctaattgtgc ttctagtagg cacagggctc ccaggccagg ac 402

```

<210> 1132

<211> 304

<212> DNA

<213> Homo sapiens

<400> 1132

```

ccaccccgga gatgacacga ggctcacatg actctagaca cttggtggaa agtgaggcga 60
gaaaaacaat gacttgggcc aattacacga ctgcaaagct agagctgcca acagggctcc 120
aggagagcttg gcttctgtag aagttctaag gaagcggtag gaactccacg gcggtggggc 180
gctaactagc agggaccctt gcaagtgttg gtcggggggc tcgagctgcc tgagctgaca 240
cgaggggagg ggtctgtgta gccaacaggt gaccgaaggg cttgcctgcc cacagcttac 300
ttgg 304

```

<210> 1133

<211> 224

<212> DNA

<213> Homo sapiens

<400> 1133

```

ctgacatttt ctatagtaga tatggaggag gtccaagact aactgtgaaa gccctgtgta 60
aggaatgtgt agtagaacgt tgtcgcatat tgcgtctgaa gaaccaacta aatgaagatt 120
ataaaactgt taataatctg ctgaaagcag cagtaaaggg cagcgatgga ttttgggtgg 180
ggaagtcttc cttgcggagt tggcgccagc tagctcttga acag 224

```

<210> 1134

<211> 250

<212> DNA

<213> Homo sapiens

<400> 1134

```

cctactctgc tgaggtggcg cttcctgcta agggcccttc tctgcccttt ctgccctcct 60
tccatcccca catgctgagc cgccacaaag accaaagaag tgatggcttt tctctgtccc 120
ctgctgctct gaggggagag ggggtgggtct cctgagccac tcagatggga aagtccctta 180
ctcggccctt ccttccccag cagccccaag ctttacactg gatgcagcga tcaaccacc 240
actcaccagg 250

```

<210> 1135

<211> 315

<212> DNA

<213> Homo sapiens

<400> 1135

```

ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagaggcg 60
atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacacg cagggccttc 120
tggtagacct catgcaatgc cctccatgtt aatattcatc agaaaatgga taattagggg 180
ggccagcaaa aatatcaagg gtcaaatac gcacatttct gtttaggcc tctatggctt 240
tcattctctc tgaagtcaac tggaattcaa acacctgcac gttccgtctg atgcgctgct 300

```

cattgtagct cttgg

315

<210> 1136

<211> 377

<212> DNA

<213> Homo sapiens

<400> 1136

```

cctgccgtcg atgccaggga ggccgacagg accttctttt ccagcggggc cgatatttcc 60
aggggaacca ggaagacctc tgggtcccat gagaccaggc tccccagggc gaccagcatc 120
tccattaggt cctcggactc cagcagggcc acttgcacca cgactaccag gagggcccat 180
gacgccagct ctgccatcag ctccaggaag accacgagaa ccaggactac ctctcagccc 240
aggaggtcct ggaggggcgg cagatccagc ttccccatta gggcctctct ttcttcttct 300
accactggga ccaggaggac cttggggccc agcagagccg ggctcaccct tgttaccgct 360
ctctcctttg gagccag                                     377

```

<210> 1137

<211> 250

<212> DNA

<213> Homo sapiens

<400> 1137

```

ctgttcaact tccaactcta aataggcacc attaaacaaa aaaccccagt attttaaatt 60
tctccagcac acattccagg atcaatgctc tgaactgtaa tcagctagta attcataacg 120
ggaatacagc cttagaatgg aagctatatt gcttccctgc cccctttctc ttacaattgg 180
agagtgtagg tattaaggga taaaaagtca gaggaagaat aattaaaaag aaaaatgccc 240
aaagctgcag                                     250

```

<210> 1138

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 431

<223> n = A,T,C or G

<400> 1138

```

tcgaccaggt cctcctgggc catctggtcc ccgaggtcag cctggtgtca tgggcttccc 60
cggctcctaaa ggaaatgatg gtgctcctgg taagaatgga gaacgaggtg gccctggagg 120
acctggccct cagggtcctc ctggaaaaga tggtgaaact ggacctcagg gacccccagg 180
gcctactggg cctggtgggtg acaaaggaga cacaggaccc cctggtccac aaggattaca 240
aggcttgctt ggtacagggtg gtcctccagg agaaaatgga aaacctgggg aaccagggtc 300
aaagggtgat gccggtgcac ctggagctcc aggaggcaag ggtgatgctg gtgcccctgg 360
tgaacgtgga cctcctggat tggcaggggc cccaggactt agagggtggag ctggtccccc 420
tgggtcccgaa ngaggaaagg gtgctgctgg tcctcctggg ccacctgggt ctgctggtac 480
tcctggtctg caaggaatgc ctggagaaa a                                     511

```

<210> 1139

<211> 505

<212> DNA

<213> Homo sapiens

<400> 1139
 ctgtggactc cagcatgttt ctgataatta tgcaagcaac aattctgtag cctcaagtaa 60
 gaccacctgt gaacttgatc attatctggc ccaaatatga agataaacta taactttgga 120
 gtttgtttcc tatttgtatt cacattctgc ttccctaaatc agttttctaa attgtgcctg 180
 caattaggca ttggtcaggg gtgaatggct cttttcacag agagtagcca accagagacc 240
 tttgctttga tatcatcaac tgcagagaat gctgttgatg ggaatgctgg aagcagaaac 300
 tttgtcatcg gaaaaacttt tcttgtatgc atgagactca acatcaggat ccacagctta 360
 aagatgggaa ttcaggtatg aaagaaaaca ggcaaggagg cactgaggga gaaagacaca 420
 gactttatcg ctctgtggct cattgttact ggaatattct aaaactcttg ttcacatgct 480
 attatgactt ataaagcagc aacag 505

<210> 1140
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 1140
 ctgtagcttc tgtgggactt ccactgctcg ggcgtcaggg tcaggtagct gctggccgcg 60
 tacttgttgt tgctctgttt ggaggggtttg gtggtctcca ctcccgcctt gacggggctg 120
 ccactctgcct tccaggccac tgtcacagct cccgggtaga agtcactgat cagacacact 180
 agtgtggcct tgttggcttg gagctcctca gaggagggcg ggaacagagt gacagtgggg 240
 ttggccttgg gctgac 256

<210> 1141
 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 1141
 ccagggcccc attctgtctg tgggactgtg gggtctcagt ggaattgttg cctttcttct 60
 cgtggagaaa tttgtgagac atgtgaaagg aggacatggt cacagtcatg gacatggaca 120
 cgctcacagt catgcacgtg gaagtcacatg acatggaaga caagagcggt ctaccaagga 180
 gaagcagagc tcagaggaag aagaaaagga aacaagaggg gtgcagaaga ggcgaggagg 240
 gagcacagta cccaaagatg ggccagttag acctcagaac gctgaagaag aaaaaagagg 300
 cttagacctg cgtgtgtcgg ggtacctgaa tctggctgct gacttggcac acaacttcac 360
 tgatggtctg g 371

<210> 1142
 <211> 312
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 292
 <223> n = A,T,C or G

<400> 1142
 cctccacac tgtcaaagt caactccacc agcactgaga caatgagtag atgagaatgt 60
 agaaagaggg aaggtggtag gtaaaaggagc ggaaggaaga ggtggggaaa gaggggaagt 120
 ggtaggtaaa ggagcggaag gaagaggtgg ggaaagaggg aaggagagaa ggggaaggagg 180
 gaagagaaaag aaggaagaaa aggaaagcat ggcccggcta gagacaaagc cagaggtgat 240
 caggtcagca gcaggagagg ctcagaaggg agcctctcgg gaagtgcagg cngccatgag 300
 ggctcgtttc ag 312

<210> 1143
 <211> 367
 <212> DNA
 <213> Homo sapiens

<400> 1143
 ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60
 cttgaggtca ggagttogag accagcctcg ccaacatggg gaaaccccat ttctactaaa 120
 atacaaaaaa ttagccaagt gtggtggcat atgcctgtaa tcccaactac tcagaaggcc 180
 gaggcaggag aattacttga acgcaggaga atcactgcag cccaggaggc agaggttgca 240
 gtgagccgag attgcaccac tgcactccag cctgggtgac tgagcaagac tccatctcag 300
 taaataaata aataaataaa aagcgtgca gtagctgtgg cctcacctg aagtcagcgg 360
 gccagg 367

<210> 1144
 <211> 159
 <212> DNA
 <213> Homo sapiens

<400> 1144
 cctggaggag cggccgcaca cacagccagg cgctaggctc cctgcgggac ctcggaagg 60
 gggaagagcg tcaacgattt acggagggtc cagccgctgg gtcagattga gacaaacat 120
 tgtgtggttg ggttcgggtc agcaggctgg agagggttc 159

<210> 1145
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 1145
 ccattgggtgt ctggagcacc ctgaaactgt atcaaagttg tacatatattc caaacatttt 60
 taaaatgaaa aggcactctc gtgttctcct cactctgtgc actttgctgt tgggtgtgaca 120
 aggcattttaa agatgtttct ggcattttct ttttatttgt aagggtggtg taactatggt 180
 tattggctag aaatcctgag ttttcaactg tatatatcta tagtttgtaa aaagaacaaa 240
 acaaccgaga caaaccttg atgctccttg ctcggcgttg aggetgtggg gaagatgcct 300
 tttgggagag gctgtagctc agggcgtgca ctgtgaggct ggacctgttg actctgcagg 360
 gggcatccat ttagcttcag gttgtcttgt ttctgtatat agtgacatag cattctgctg 420
 ccattcttagc tgtggacaaa ggggggtcag 450

<210> 1146
 <211> 324
 <212> DNA
 <213> Homo sapiens

<400> 1146
 ccatacaggg ctgttgccca ggccctagag gtcattctc gtaccctgat ccagaactgt 60
 ggggccagca ccatccgtct acttacctcc cttcgggcca agcacacca ggagaactgt 120
 gagacctggg gtgtaaattg tgagacgggt actttggtgg acatgaagga actgggcata 180
 tgggagccat tggctgtgaa gctgcagact tataagacag cagtggagac ggcagttctg 240
 ctactgcgaa ttgatgacat cgtttcaggc cacaaaaaga aaggcgatga ccagagccgg 300
 caaggcgggg ctctgatgc tgga 324

<210> 1147

<211> 191
 <212> DNA
 <213> Homo sapiens

<400> 1147
 ccacgaaaat caatgagaag ccacaggtga tcgctggacta tgagagcgga cgggccatac 60
 ccaataacca ggtgcttggc aaaatcgagc gggccattgg cctcaagctc cggggaaagg 120
 acattggaaa gcccatcgag aaggggccta gggcgaaatg aacacaaagc ctcgaaatca 180
 gtgtgctcca g 191

<210> 1148
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 1148
 ctgtccaatg acaacaggac cctcactcta ctgagtgtca caaggaatga tgtaggaccc 60
 tatgagtgtg gaatccagaa cgaattaagt gttgaccaca gcgaccagc catcctgaat 120
 gtcctctatg gccagacga cccaccatt tccccctcat acacctatta ccgtccaggg 180
 gtgaacctca gcctctcctg ccatgcagcc tctaaccac ctgcacagta ttcttggtg 240
 attgatggga acatccagca acacacacaa gagctcttta tctccaacat cactgagaag 300
 aacagcggac tctatacctg ccaggccaat aactcagcca gtgg 344

<210> 1149
 <211> 329
 <212> DNA
 <213> Homo sapiens

<400> 1149
 ctgacccact cactgggctg gggcacaggc tctggaatgg gcactctcct tatcagcaag 60
 atccgagaag aataccctga tcgcatcatg aataccttca gtgtggtgcc ttcacccaaa 120
 gtgtctgaca ccgtggctga gccctacaat gccaccctct ccgtccatca gttggtagag 180
 aatactgatg agacctattg cattgacaac gagggcctct atgatattctg cttccgcaact 240
 ctgaagctga ccacaccaac ctacggggat ctgaaccacc ttgtctcagc caccatgagt 300
 ggtgtcacca cctgcctccg tttccctgg 329

<210> 1150
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 1150
 ccagttatatt gcaagtggta agagcctatt taccataaat aataactaaga accaactcaa 60
 gtcaaacctt aatgccattg ttattgtgaa ttaggattaa gtagtaattt tcagaattca 120
 cattaacttg attttaaaat cagttttgtg agtcatttac cacaagctaa atgtgtacac 180
 tatgataaaa acaaccattg tattcctgtt tttctaaaca gtcctaattt ctaacactgt 240
 atatatacctt cgacatcaat gaactttgtt ttcttttact ccagtaataa agtaggcaca 300
 gatctgtcca caacaaactt gccctctcat gccttgctc tcaccatgct ctgctccagg 360
 tcagccccct tttggcctgt ttgttttgtc aaaaacctaa tctgct 406

<210> 1151
 <211> 346
 <212> DNA
 <213> Homo sapiens

<400> 1151
 ctgcgtgagt accaggagct gatgaacgct aagctggccc tggacatcga gatcgccacc 60
 tacaggaagc tgctggaggg cgaggagagc cggctggagt ctgggatgca gaacatgagt 120
 attcatacga agaccaccag cggctatgca ggtggtctga gctcggccta tgggggcctc 180
 acaagccccg gcctcagcta cagcctgggc tccagctttg gctctggcgc gggctccagc 240
 tccttcagcc gcaccagctc ctccagggcc gtggttgatga agaagatcga gacaogtgat 300
 gggaagctgg tgtctgagtc ctctgacgtc ctgcccaagt gaacag 346

<210> 1152

<211> 427

<212> DNA

<213> Homo sapiens

<400> 1152
 ctggactgct gtacatcaag gacagattaa ctggaaaaca tatgttcctt atgcgtgata 60
 gagagccatt cagaaaagac ttctttgtg ttcagcctat acttttccat atggtataacc 120
 ttgaaaaaaa ttagcacacc atggttattt ttctaccttt tataaaagac agagcctggt 180
 tactcattta gaagatagag aaaattgggtc taaaattgaa catcctagat tcacactccc 240
 aagtcactta aggtgatttg atggtgagga aaatgattga cagagcccaa caatgatctc 300
 aggaattaca ttttccaaca gacaaaaaaa tgttttcatg tagcagcaat gcagatttgg 360
 tgaatattta atatataatt tagtatgtat ttcactttat gactgacaat taaaaaatat 420
 tgtttgg 427

<210> 1153

<211> 331

<212> DNA

<213> Homo sapiens

<400> 1153
 ctggccggcg gtgcagatct ggagtccagc ctcagggatg cgctactttc cattctctgc 60
 attgaacatt cgttctgtca gcacccgctc cagcttcaact gcacagcgg caaacttgcg 120
 gatcccgtca gagagcttct ccacagccat ctggtcctcg ttgtgcaacc aacggaaaga 180
 cttctcatcc aggtggattt tttccagggtc actggcttgg gctgggggac aagaaccagc 240
 cttccatgcc tgctccatgt ccctgccac cttggccccct tgggctcagg gcctgaaccg 300
 ctgcacccaa gcacatccca ccagggccag g 331

<210> 1154

<211> 403

<212> DNA

<213> Homo sapiens

<400> 1154
 ctgaactttc agatgaagtt gacttctact tgattgcagg attcagggtt tctcagatgt 60
 taatacagag tcaaaagcgg tggataaaac cttgcaaatg gcttggtgctt gttccaggct 120
 gttgcaactga taaaccacac ggctgtattc ctcatgtgtt gcacatgtgg tcttcagagc 180
 cagtaagctt tttcccgccc ccagaccgtc atcgtaacac accatccgga ttattaagta 240
 gagagcatgc ctgtgcaaaa catcatattg atctgatgtt gatactttta tgccatactt 300
 ggaaactccc ataataaatt cttcctccgg aggaacaaaa ggcaactttc catcttgctg 360
 ggcaacgtct atataattta tcagggtctaa tggcccttca agg 403

<210> 1155

<211> 491

<212> DNA

<213> Homo sapiens

<400> 1155

```
cctccctctc agagcttgcc ccagggactc tctggccctc agggttcaat gtattctgac 60
caaggccaag ctttcctggg gctcagggaa aatcacactt tgctacccga agctgtatcc 120
cctcagatgc caggaaggcc gtgatcatct gactccaccc tcctgagaca cattctctcc 180
ctgactgtcc tgttctaagt cagcggagca ccttaggatg gaggggtgga ggcgaggcca 240
gatgcagcct ctgtgaacag gtgcctggag gctgggaaat gaccctgaga gggcaggaca 300
cagcaaccgt gggccttaagg tgaccttgag agcaagcttg gccacttta caattctgtt 360
cagagccagc ccctaacatg gtgggtcattt attcatttgt tccctcattt taaaaaatgt 420
aaggccaggc atggtggctc acgcggggtg atcccagcac tttgggaggc cgaggcaggc 480
agatcacctg a                                     491
```

<210> 1156

<211> 586

<212> DNA

<213> Homo sapiens

<400> 1156

```
agcaaataga agcaatcagg gcaactgcaag ttgtgactac tccaagatgt gaatcatgga 60
tcatgcaaat tacaatcatg ttttaacctg acctccaaag ggagaataaa gtaaaaaatta 120
tcccattgta ggattattca ccagtttata tgtcattagt taccagtttt tctttatgaa 180
taatgtttag caatattata aagtatatct aatagttatc aggttttttg cttgttactt 240
tttggtagta acttataaaa ctgactggaa aagaccaata aggcactgtt tgcattgtac 300
aaattatatc caaagaccaa aagctgttaa taagaaatct tccaataaaa ccacatcata 360
ttttcttttt tatttacacc cacatcagga ttacaacttt atcaggactg caccttgatc 420
aggaagggat gtttctctta caaggctaata aagaaaggaa caataaattt gctgatgaaa 480
aaagtcattg atttataaat tttaacttta atttttaatt gagggcaata ttttaaagaa 540
atgctcatta gtcattcctt taaatttgtt gtgtgagaga gagaaa                    586
```

<210> 1157

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 373, 389

<223> n = A,T,C or G

<400> 1157

```
cctccggctg gtgttctgag ggttgccagg ccacgtgga cacaggcacc tctctgctca 60
ctgtgccccg gcagtacatg agtgctcttc tgcaggccac agggggccag gaggatgagt 120
atggacagtt tctcgtgaac tgtaacagca ttcagaatct gccagcttg accttcatca 180
tcaatggtgt ggagttccct ctgccacctt cctcctatat cctcagtaac aacggctact 240
gcaccgtggg agtcagagcc acctacctgt cctcccagaa oggccagccc ctgtggatcc 300
tcggggatgt cttcctcagg tcctactatt ccgtctacga cttgggcaac aacagagtag 360
gctttgccac tgnccgctag acttgctgnc tc                                     392
```

<210> 1158

<211> 375

<212> DNA

<213> Homo sapiens

<400> 1158
 gggaaaaata attttattcc tcaaattgac agcacattca gaagcaggac agaggagctc 60
 tgatgacatc tctgggggac tcaaagcggc cctcattttc tggatatttc ccaggtgatt 120
 ctcttccaac ctgtgagtc tctctcttt cctcccatct gaagtttgag acatcctctg 180
 ccacaaggaa agccaccaat accagcccaa agagccacca gagaggaacc aaaccacatg 240
 catcaagtta taggaaggat gcaagaaggg aaattaggaa ggaaaggag gagtttagtt 300
 ggcattctgg ggcattgctaa catgagggcg atggtctctc tccaagtcgc tggacatatc 360
 ccttttcttt ccagg 375

<210> 1159
 <211> 361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 338
 <223> n = A,T,C or G

<400> 1159
 gtttattgta aaaaacaaaa aactctgtat tgtgcacatg aagacctgga gatgtgccga 60
 cttcctgtcc ccaaagccaa tcttccccgc caaggcgact gaggatttca agggctcaga 120
 gttactgcag gaatccaggt gacaccagga agagaagggg gaggagggga atcggagggg 180
 atgggtttta aaggcagagg ggagggagat ggaagggaat gaggaggagg gagactgagg 240
 gggctgcctt tccttgggga ctgggggaact catgccctgc cccacccgc agggctccag 300
 gggtagagaa aagggtgga gaataaagaa ttggggcanca gggtagatggg gggaacagca 360
 g 361

<210> 1160
 <211> 142
 <212> DNA
 <213> Homo sapiens

<400> 1160
 cgcaatgttg ccagtgtctg tctgcagggt ggctacccaa ctgttgcatc agtaccat 60
 tctatcatca acgggtacaa acgagtcctg gccttgtctg tggagacgga ttacaccttc 120
 ccacttgctg aaaaggtcaa gg 142

<210> 1161
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 1161
 ccaaagccta cgaccacctc ttcaagttgc tctgatcgg ggaactcggg gtgggcaaga 60
 cttgtctgat cattcgcttt gcagaggaca acttcaacaa cacttacatc tccaccatcg 120
 gaattgattt caagatccgc actgtggata tagaggggaa gaagatcaaa ctacaagtct 180
 gggacacggc tgg 193

<210> 1162
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 1162
 cctgggtgcc acgattccca gcctggagcg cagccaggac gtgggagacc ttctcagaga 60
 ctctccgggc acactctatg agctccttct tgggtgtaggc atcactgggg ctgcactgca 120
 gggcgctgc cttggtgacc agagcggcac agccatggcc cagctcctgt acccggtgtt 180
 tgatatggga acctatctct tcattttcag cagccaccgc tgcagggttg gctccgagg 240
 ccagacggcc atagtcaactg gtcag 265

<210> 1163
 <211> 337
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15, 204, 205, 212, 224, 263, 285, 293
 <223> n = A,T,C or G

<400> 1163
 ctgcagagtg ggganaggct tttgccacta gaaacttcca ggatgcacga gatcaaggaa 60
 ttaagtctgt aacaaaataa caggatgctc tgtgaagtcc aaagaattgc ttgaggcaaa 120
 ctgcagagct ccatgagatc agcaacccca agagctttta caccgccgga cacggtttaa 180
 taggaaaaaa atctctata ctgnntattc anaaccaa at gaanagaaat gtcaaaggag 240
 tcggaaacaa tatgtcaa at tangtaaatt cctgacctga cccanatttt gcngaacatt 300
 tgatcctaaa ctgtgctgtc cacgtcctta ggatcac 337

<210> 1164
 <211> 368
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 221, 226, 233, 242
 <223> n = A,T,C or G

<400> 1164
 ccagacgtg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60
 cttgaggtca ggagttcgag accagcctcg ccaacatggg gaaaccccat ttctactaaa 120
 aatacaaaaa attagccaag tgtggtggca tatgcctgta atcccaacta ctcagaaggc 180
 cgaggcagga gaattacttg aacgcaggag aatcactgca nccangagg canaggttgc 240
 antgagccga gattgcacca ctgcactcca gcttgggtga cagagcaaga ctccatctca 300
 gtaaataaat aaataaataa aaagcgctgc agtagctgtg gctcaccct gaagtcagcg 360
 ggcccagg 368

<210> 1165
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 179, 211, 214, 235, 251, 252
 <223> n = A,T,C or G

<400> 1165
 ctgggaagga ggctcctcog cctttctcctg tttgtcatcc tctcatcag actcgacctc 60
 catctcaact tctcactct ccccaaactt ttcatagcgc tctgaatga ggattcgggc 120
 cccagctcc tctggcgtgg tggggggagg gaagttccct tgctcattgg gttggaagnc 180
 cactgtttcc accaccacaa aatcatgcc a ntcnatctga gcataggcca ccgntcctt 240
 ctcttctcc nnttcttct tcttctt 267

<210> 1166
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 142, 323, 354, 376, 381, 382, 402, 408, 422
 <223> n = A,T,C or G

<400> 1166
 ctgtctgtac actttttctt gggggaagag ttcttgtctt cagtttactg cagtaggggtt 60
 cctggctctg ttacatgctc atgtgttccg gaagaacaca tgaaatatca tcccacggat 120
 gacgatacag cccctgcttc ancctcttct gatcaagata gtgtccaatg aaccccatatc 180
 tcttcccag cacaaagatg ccattgaggg ctccaatgtc aatatattca tcagcttctt 240
 ccctgcaaca cacatcaact ttagtcttta aaaggctcac gtgactgcc tctccccac 300
 agacagtact actactgcc aanaatgaga agaaaagggg tgctctgggt ggtngcatta 360
 caggcaattt ttgttntctt nnttatacct ctcttattt tncaaatntt ctattatgag 420
 tntgcattac ttt 433

<210> 1167
 <211> 362
 <212> DNA
 <213> Homo sapiens

<400> 1167
 cctctggctc tttcttcagc cactttctca gctcctgcag gttctggctt gagtagtcag 60
 tgacgacgat ctctttaaag gattcacaag cagagaggag ctgatagata gtggggccag 120
 agccgatgtc aatcagcagg tctcccttca caccgtctag gcagaatata ttgaaaagat 180
 ttttcagaag gtgcttaaga atctggcttt ctgcagagtg cctagaacca aacttgtaat 240
 atttttctag gtaatccga gggttaaaat ggcttagata ggtgtccttg gaggtgaagc 300
 ctgattccat tatgtctcac ttccgtacca ctggagcact gccctccttc tctttcctcc 360
 ag 362

<210> 1168
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 370, 382, 406
 <223> n = A,T,C or G

<400> 1168
 gcagtcattg ggcccaggac catgccactg gccctgctcc cccagccgca gctcacctg 60
 caggtgctcc tcgatgtcct tgcggtcgta ggtgatgcc ctgggcgtga tgcacggctc 120

```

ccgcatcagc tcaaagctga tcttgccaca caggtagtcg gggatgtctc gcttctgtgg 180
cacaggggca cacggtcaga ggctgaaaag gggcactgca cgagcacctg ccagccatcg 240
gcagcaagcg acacacactc accttcctct tctcatccac ctgagaaaaa agctcgtcca 300
tgtccgccat gtacttgtcc tgtgaagagt tgagtgtctgt gcttggggga gacacccac 360
ctccctcctn catggggcac anacccaaca caaggcgggg atgctnccac gccacgtgca 420
cacacacaga cccacatgtg ggtggggggc accctcacg 459

```

<210> 1169

<211> 386

<212> DNA

<213> Homo sapiens

<400> 1169

```

ccaggccacc tgtgcggggc tcctcgatgt ggaagggttcg ggtgaggaga ttgtagaagg 60
agccgtagca cacggccacc acagtgcacg tgaggcagat cacgctgtag ggcattgctga 120
agtccggtgt cggcaggttc accagcagcg gctccgtgta gagccgcaca aagtagttag 180
agccatcaga gactgggaac aggctgttga agaggggact ctcttcccag tccactggct 240
tggctgctac catgctgggc acaagggcgc tgaggacaga tgggctgaca tagaagccat 300
ggtaggatc tggcgtgtac tcggctccact tcagcagcgc ccgctcaaac tggatggaaa 360
ccttggtgac tgagttggcc ggccag 386

```

<210> 1170

<211> 480

<212> DNA

<213> Homo sapiens

<400> 1170

```

ctattttctct gttagtgttt aaccaaccat ctgtttctaaa agaagggtctg aactgatgga 60
aggaatgctg ttagcctgag actcaggaag acaactttctg cagggtcact ccctggcttc 120
tggaggaaaag agaaggaggg cagtgtctca gtggtacaga agtgagacat aatggaatca 180
ggcttcacct ccaaggacac ctatctaagc ctttttaacc ctcggtatta cctagaaaaa 240
tattacaagt ttggttctag gcactctgca gaaagccaga ttcttaagca ctttctgaaa 300
aatcttttca agatattctg cctagacggg gtgaaggag acctgctgat tgacatcggc 360
tctggcccca ctatctatca gctcctctct gcttgtgaat cctttaagga gatcgtcgtc 420
actgactact caggaccaga acctgcagga gctggagaag tggctgaaga aagagccaga 480

```

<210> 1171

<211> 317

<212> DNA

<213> Homo sapiens

<400> 1171

```

cctcagcagc cctgccacgg atctgcccga ttcttttcgca tcaagaagtt gatcttgcca 60
gccatttcca tgtttagat ccgccggcac ctttcatagc tttccctctg tcgcccggcg 120
catggcttct cataataccg ccgatgctta atgtcctcaa tgagcccatc catagtggag 180
attctgttta gggctctgta tgcgctttcc acgttccctt cctgtaccat cacagtcctg 240
gcgatgaact tcagatgttt tgccatgacc ttggatttaa accttcactc tgtagagcct 300
cgcgcgctca gtacct 317

```

<210> 1172

<211> 202

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 32, 62, 70, 71, 77, 90, 111
 <223> n = A,T,C or G

<400> 1172
 ggcaacggga ggaacagcag cagaggcagc angagcagga ggagcgtgaa cgagaagagc 60
 ancggcgatn ngctgcncctc agtgacogan agaagagagc tctggctgca nagcgccgac 120
 tcgctgcca gttgggagcc cctacctctc caatccctga ctctgcaatc gtcaatactc 180
 gacgctgctg gagttgtggg gc 202

<210> 1173
 <211> 173
 <212> DNA
 <213> Homo sapiens

<400> 1173
 ctgcctgggt tgtggccgcc ctagcatcct gtatgccac agctactgga atccccgctg 60
 ctgctccagg ccaagcttct ggttgattaa tgagggcatg ggggtgtccc tcaagacctt 120
 cccctacctt ttgtggaacc agtgatgcct caaagacagt gtccctcca cag 173

<210> 1174
 <211> 301
 <212> DNA
 <213> Homo sapiens

<400> 1174
 ccaagagcta caatgggcag cgcacagac agaacgtgca gggttttgag ttccagttga 60
 ctgaggagga catgaaagcc atagatggcc tagacagaaa tctccactat tttaacagtg 120
 atagttttgc tagccaccct aattatccat attcagatga atattaacat ggagagcttt 180
 gcctgatgtc taccagaagc cctgtgtgtg gatggtagc cagaggacgt ctctatgccg 240
 gtgactggac atatcacctc tacttaaatac cgtcctgttt agcgacttca gtcaactaca 300
 g 301

<210> 1175
 <211> 537
 <212> DNA
 <213> Homo sapiens

<400> 1175
 cctgcagggc tcggccgtag gagaagggtca gggcccaggg cttcagcagg gggcacttgt 60
 taatggcatt gaggttgatg gacgcctcct cctcactctg gcctccagac aggaagggtga 120
 tccagtgac agcggggggc actgtgcggc gcagcgtgtg gacggtegcc atggcaatct 180
 cctcatgaga aaacttctga gtgcaagcat ggctgggggt gaccatgttg ggcttcagca 240
 aggtgccttc caggttagatg tgggtgtcac tcagagcctt gtagacagca gccagcacct 300
 tctcggtcac atactggcag cgcttcaagt catgggtccc atcagggagg atctcaggct 360
 ccacgatggg cacaatgccca ttctgtctggc agatactggc ataacggggc agaacattgg 420
 cattttccat gatggcgagg gctgaggggg tgtgttcccc aatcttcagc acacaacgcc 480
 acttggcgaa gtcagctccg tccttcttgt actgggcaca gcgctcagac agcccat 537

<210> 1176
 <211> 384
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 268, 285, 334, 360, 361, 368

<223> n = A,T,C or G

<400> 1176

```
ctgacaaaaa atgtgaaatt tccacaaaat atccaactta tgtgactaaa cgcagtagtt 60
tttttaaaag gggagataga aaataaatgg ttttgttgga gtgcatttta gtaagccttt 120
gcagtaaaat gacggttgta actactaaac caaatntagt ttccacagca tggttttgtt 180
gttttcccct tgtttttcag aggtaaatgt tgcattatat ccttcagtat tttaacacta 240
ttttggcagt ttacacatta ctttttgntt ttccttcctt tttgngaaat gtattaagtt 300
gtggttctta ttgaaacagt attatataat gttngcttaa ttatatcatg tgatgctcan 360
ntctattntg atttattcat tagt 384
```

<210> 1177

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 492, 541, 550

<223> n = A,T,C or G

<400> 1177

```
ccaacaacat gcaggaagct cagagtatcg atgaaatcta caaatacgac aagaaacagc 60
agcaagaaat cctggcggcg aagccctggg ctaaggatca ccattacttt aagtactgca 120
aaatctcagc attggctctg ctgaagatgg tgatgcatgc cagatcgga ggcaacttgg 180
aagtgatggg tctgatgcta ggaaaggtgg atggtgaaac catgatcatt atggacagtt 240
ttgctttgcc tgtggagggc actgaaacc gagtaaagtc tcaggctgct gcatatgaat 300
acatggctgc atacatagaa aatgcaaaac aggttggccg ccttgaaaat gcaatcgggt 360
ggtatcatag ccaccctggc tatggctgct ggctttctgg gattgatgtt agtactcaga 420
tgctcaatca gcagttccag gaaccatttg tagcagtggg gattgatcca acaagaacaa 480
tatccgcagg gnaaagtga tcttggcgcc tttaggacat acccaaaggg ctacaaacct 540
notgatgaan gaccttctga gt 562
```

<210> 1178

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 117

<223> n = A,T,C or G

<400> 1178

```
cgcgtotgga tggccgaatc attcgcacag actgggacgc aggctttaag gagggcaggc 60
aatacggccg tgggcgatct gggggccagg ttcgggatga gtatcggcag gactacnatg 120
ctgggagagg aggctatgga aaactggcac agaaccagtg agtggtgaga gctctgtcag 180
tgacaaaacac tcctttggcc tgttgaattt gctgaagaac atcacctaaa gtctgcacac 240
gagcccattt ttaccaagat ttgatcagtg tctttactga gctggaagcc tctgaaagtt 300
```


attaaaggac agaatccaaa agaatgcctt taattcttgt ctgagaatct tgg 353

<210> 1179

<211> 288

<212> DNA

<213> Homo sapiens

<400> 1179

ccaatgggat	cctcaagggtg	cctgccatca	atgtcaatga	ctccgtcacc	aagagcaagt	60
ttgacaacct	ctatggctgc	cgggagttcc	tcatagatgg	catcaagcgg	gccacagatg	120
tgatgattgc	cggcaaggta	gcggtggtag	caggctatgg	tgatgtgggc	aagggctgtg	180
cccaggccct	gcggggtttc	ggagcccggg	tcatcatcac	cgaggttgac	cccatcaacg	240
cactgcaggc	tgccatggag	ggctatgagg	tgaccaccat	ggatgagg		288

<210> 1180

<211> 523

<212> DNA

<213> Homo sapiens

<400> 1180

ctggagagat	ggagcgggtg	gcaccgtcat	ccttctctcat	cagccacata	gaaggacagt	60
ggcgatttca	gcccagcttt	tctgactgct	tgtaaattga	agcccagaac	tggtttgcca	120
cctgtgggat	cgactcagca	ttttaaaata	ggaggcagtc	gtgagtgcag	gtttcttgca	180
gctccgggtg	gccttgggct	ccaggtcagg	agacctcagc	tcctgtccct	gatctgtggt	240
tgtcaagcct	tgagactct	aaactcagca	tctttatctg	tcagacgtag	acacgtggct	300
cccgtggttg	gtgcggttgg	aatagctgag	gtaatacacg	gacctccaag	cactagagca	360
gtatgaggag	ttctgaggaa	tggttatcct	gcggtgcttg	tggtccacag	caagccattc	420
ttatcccatc	cggtttactt	cccacagcca	ccttgtaagc	ataggcatta	tcctctaccc	480
catcatagaa	atgaggaaaa	gaatcaccaa	gagagtaagc	agc		523

<210> 1181

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 438, 479

<223> n = A,T,C or G

<400> 1181

cacagatgaa	ggctttgtga	tacctgatga	aggggggcca	caggaggagc	aagaagagta	60
ttaacagcct	ggaccagcag	agtaacatcg	gaattcttca	ctccaaatca	tgtgcttaac	120
tgtaaaatac	tcccttttgt	tatccttaga	ggactcactg	gtttcttttc	ataagcaaaa	180
agtacctctt	cttaaagtgc	actttgcgga	cgtttcactc	cttttccaat	aagtttgagt	240
taggagcttt	taccttgtag	cagagcagta	ttaacacctc	gttggttcac	ctggaaaaca	300
gagaggctga	ccgtggggct	caccatgcgg	atgcgggtca	cactgaatgc	tgagagatg	360
ttatgtaata	tgctgagggtg	gcgacctcag	tggagaaatg	taaagactga	attgaatttt	420
aagctaattg	gaaatcanag	aatgttgtaa	taagtaaagt	ccttaagagt	atttaaaana	480
tgcttcaca	ttt					493

<210> 1182

<211> 329

<212> DNA

<213> Homo sapiens

<400> 1182

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cgcgctctctg acactgtgat catgataggg gttcaaacag aaagtgcctg ggccctcctt 60
ctaagtcttg ttacaaaaaa aaggaaaaag aaaagatctt ctcaattaca aattctggga 120
aggagacta tacctggctc ttgccctaag tgagagggtc tccctcccg accaaaaaat 180
agaaaggctt tctatttcac tggcccaggt agggggaagg agagtaactt tgagtctgtg 240
ggcctcattt cccaggtgcc ttcaatgctc atcaaaacca ggcatgggga aggccttggc 300
aaactgctcc acccgttgcc tgagggttg 329

```

<210> 1183

<211> 198

<212> DNA

<213> Homo sapiens

<400> 1183

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cctgacagac agaagggtt ggagattttt tttctttaca attcagtctt cagcaacttg 60
agagctttct tcatgttgct aagcaacaga gctgtatctg caggttcgta agcatagaga 120
cgatttgaat atcttccagt gatatacggt ctaactgtca gagatgggtc aacaaacata 180
atcctgggga catactgg 198

```

<210> 1184

<211> 224

<212> DNA

<213> Homo sapiens

<400> 1184

```

ctggagggtgc ctcagaaggt gcattctgct tcctgcaggg gcttgaaaca ccaaggcact 60
ccagggatcc tggagtcaaa gcagcagccc cggttggtgc actccttggg ggtgacatgg 120
gggtagccgc agtccacct gtccttggct ggacggcac actgggttgc agacaggccc 180
acgtactcct cagcagagct ggaggacagc aaggccagga ccag 224

```

<210> 1185

<211> 367

<212> DNA

<213> Homo sapiens

<400> 1185

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ccttttacag atgtcagctt tcaactggcct ccatgcacaa cctccacta ccaccaatc 60
tgctgccac agcaaagtgc aggcaccctg ggccccctgg aggatgcggg caggggctac 120
agggcattca ggatgtggct gatcttgggt accagctcct ggcgctttcc tgagatgagc 180
ttctcattct caatgtacgt gtctttcttg agcttgccag ccaccaggcg ctcagcctcc 240
accgcgcact tcagcaccag ctcccttgacc tgtgcatcca gcttctgcat ttcgctcact 300
ctgtcgaca gatcagagcc ctctgtcttc agcctggact gcagcagtgc aatctcactg 360
gtcaagg 367

```

<210> 1186

<211> 188

<212> DNA

<213> Homo sapiens

<400> 1186

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ccattaagcg gatgctggag atgggagcta tcaagaacct cagtccttc cgacctgggc 60
aagagctgta gcctgtcggg tgctactct gctgtctggg tgacccccat gcgtggctgt 120

```

gggggtggct ggtgccagta tgacccactt ggactcacco cctcttgggg agggagtcct 180
gggcctgg 188

<210> 1187

<211> 379

<212> DNA

<213> Homo sapiens

<400> 1187

gttgatgcta ctctgaagtc tctcaacaac cagattgaga cctttcttac tctgaaggc 60
tctagaaaga gccagctcg cacatgcgt gacttgagac tcagccacco agagtggagc 120
agtggttact actggattga ccctaaccac ggatgcacta tggatgctat caaagtatac 180
tgtgatttct ctactggcga aacctgtatc cgggccaac ctgaaaacat cccagccaag 240
aactggtata ggagctccaa ggacaagaaa cacgtctggc taggagaaac tatcaatgct 300
ggcagccagt ttgaatataa tgtagaagga gtgacttcca aggaaatggc tacccaactt 360
gccttcatgc gcctgctgg 379

<210> 1188

<211> 384

<212> DNA

<213> Homo sapiens

<400> 1188

cgctcgagc tgcagccagt ccgtttcctt tctttagcca gccatcctgg tactgtagtt 60
taggggttga tggtggttga aattgatttc tggctggtta ctaagggtgc tgctagccat 120
tgtataaaat taaaacatga agaataattt ttttttgagc atggctagt gatttaaaac 180
aacacatacc tgtcactgct ggagtcaaac ttataaaaag ccttaagtgg aaagtgttcc 240
agacggagac tctgagttaa tagaggagta gaagctggtg ttaaagttcc cacgacgcac 300
atggctttgc cagaaactct gtttaatgat cggcctttca cctcttcact tatccttagt 360
cccagtagcc aggatacctg atgg 384

<210> 1189

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 348, 349

<223> n = A,T,C or G

<400> 1189

ggaaaaacca gccactgctt tacaggacag ggggttgaag ctgagccccg cctcacacco 60
acccccatgc actcaaagat tggattttac agctacttgc aattcaaaat tcagaagaat 120
aaaaaatggg aacatacaga actctaaaag atagacatca gaaattgttg agttaagctt 180
tttcaaaaaa tcagcaattc cccagcgtag tcaagggtgg aactgcacg ctctggcatg 240
atgggatggc gaccgggcaa gctttcttcc tcgagatgct ctgctgcttg agagctattg 300
ctttgttaag atataaaaag gggtttcttt ttgtctttct gtaaggtnna cttccagctt 360
ttgattgaaa gtccatagggt gattctattt ctgctgtgat ttatctgctg aaagctcag 419

<210> 1190

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1190
ccagggtactg gcacatcatg ctctggatgg ggggtgggtgt gtcctgtagg cagagaaaca 60
ggaaattgtc gtagtcagta tcgagcagcg tggcctcggt cgccaccgta tagttgatct 120
tgaacttctt tggattctca gtcttctctc caaggacctt cttctcaaca cag 173

<210> 1191
<211> 341
<212> DNA
<213> Homo sapiens

<400> 1191
cctcctgcca gcagttcttg aagcttcttt ttcattcctg ctactctacc tgtattttctc 60
agttgcagca ctgagtggtc aaaatacatt tctggggccac ctcagggaac ccatgcatct 120
gcctggcatt taggcagcag agcccctgac cgtccccccac agggctctgc ctcacgtcct 180
catctcattt ggctgtgtaa agaaatggga aaagggaaaa ggagagagca attgaggcag 240
ttgaccatat tcagttttat ttattttatt ttaatttggt cttttctcca agtccaccag 300
tctctgaaat tagaacagta ggcggtatga gataatcagg a 341

<210> 1192
<211> 324
<212> DNA
<213> Homo sapiens

<400> 1192
ttggaggttg gcggcgcggt gctgaaggct agcaaaccga gcgatcatgt cgcacaaaca 60
aattttactat tcggacaaat acgacgacga ggagtttgag tatcgacatg tcatgctgcc 120
caaggacata gccaaagctgg tccctaaaaac ccatctgatg tctgaatctg aatggaggaa 180
tcttggcggt cagcagagtc agggatgggt ccattatatg atccatgaac cagaacctca 240
catcttgctg ttccggcgcc cactacccaa gaaaccaaag aaatgaagct ggcaagctac 300
ttttcagcct caagctttac acag 324

<210> 1193
<211> 521
<212> DNA
<213> Homo sapiens

<400> 1193
ctgctttgtt ttctgttggc agtggaggga caagggtgaga ggagccaggg gtagtcatga 60
acaccagtgg gttctgcctt gggcagctcc ccaccttctt taagagagta ctgtgtctca 120
gctccagcag tctcaactgg gaagaccag gactcctgct cttttctcta atccctggga 180
gacgaggtcc agctaaggta gagtaagcag tcagtgaacca ggcaggctgg tttgggaggt 240
cactgcctgg aggacgggat cttgtattct tcggaagatg gctgggaaat tcttccctcc 300
attacgtaga actttcttcc cctcctcagt tgaggtgcct agatgtccca caacgggggtc 360
ttcaactcagg tctccagag gcacacgctc aaacagtggg tgcctcttga aatgagtgca 420
catccagtcg ttagcttcca gcacatcggt tatggtatac accagccctt gcataggcaa 480
aatcacccta gacaggaggc tgcattgcaac gtcagcagcc a 521

<210> 1194
<211> 208
<212> DNA
<213> Homo sapiens

<400> 1194

ccagtgacta gaaggcgagg cgccgcggga ccatggcggc ggccggcgac gagcggagtc 60
 cagaggacgg agaagacgag ggagaggagg agcagttggt tctggtggaa ttatcaggaa 120
 ttattgattc agacttcctc tcaaaatgtg aaaataaatg caaggttttg ggcattgaca 180
 ctgagaggcc cattctgcaa gtggacag 208

<210> 1195

<211> 499

<212> DNA

<213> Homo sapiens

<400> 1195

ccagaaagga aagacaataa ttttgttttt toattttgaa aaaattaaat gctctctcct 60
 aaagattctt cacctacttt ggtctccata acttctatgt tttctttcct tctgacacac 120
 tagtgcccc aaattgtgat ttgcctatac gtttagggcc ggggttgaa gatgttaaca 180
 accatttaag attcatttct gcagtgggag tgggtggagt ttcacctctt gggaaagggg 240
 caggtgacag gtatttatca gtcagtgcct ctctagctct tgtaggaaga agcacacgca 300
 ggatggagtc tagaggatga gcgatattga ctagcaattc atgggctccc tccagcagtg 360
 cgagggtcag agtttctgga gccttgggag gaggcattccc tgtgaggggg ggtagggag 420
 atgggagggc accaggaaaa gtgattagaa gtcaggtatg ggaaggctaa attaggacag 480
 agtcgagtac atctctgct 499

<210> 1196

<211> 455

<212> DNA

<213> Homo sapiens

<400> 1196

ctgaccccc tttgtccaca gctaagatgg cagcagaatg ctatgtcact atatacagaa 60
 acaagacaac ctgaagctaa atggatgccc cctgcagagt caacaggtcc agcctcacag 120
 tgcacgcctt gagctacagc ctctcccaaa aggcattctt cccacagcct caacgccgag 180
 caaggagcat caagggtttg tctcggttgt tttgttcttt ttacaaacta tagatatata 240
 cagttgaaaa ctcaggattt ctagccaata accatagtta ccaccacctt acaaataaaa 300
 agaaaatgcc agaaacatct ttaaatgcct tgtcacacca acagcaaagt gcacagagtg 360
 aggagaacac gagagtgcct tttcatttta aaaatgtttg gaaatatgta caacttcgat 420
 acagtttcag ggtgctccag acacccatgg acctg 455

<210> 1197

<211> 444

<212> DNA

<213> Homo sapiens

<400> 1197

cctggatgtg gctcttcgca ctgaaggcca agtagtagat cacaaggccg atcgccgcag 60
 ccagcacctc agtggacacc cagggcccgt tccaagtgcc ccgatgggcc acgctgactg 120
 taaacagagg cgggatgatg gaaatgtcct cgttattcct ctgagccttc ctgaggaggc 180
 tgtaggactc ctgctcgaag aatctaacct cataggtgcc tgcgtgggag ctcttggtgt 240
 tcaggcttca ggacacctga taacgcccc catcctggcc tcgagtgaca gggaattgtt 300
 ttccaccgac gtcagcatag agagccatgt tctggaccct gttcttgcat gtcagggaga 360
 tctccacaat gaagacggtc tcagtggaaa tgacagcgtc agaagtgggt tagtaggaag 420
 ggggtgatctg gggctccagg cagg 444

<210> 1198

<211> 450

<212> DNA

<213> Homo sapiens

<400> 1198

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ccatgggtgt ctggagcacc ctgaaactgt atcaaagttg tacatatattc caaacatttt 60
taaaatgaaa aggcactctc gtgttctcct cactctgtgc actttgctgt tgggtgaca 120
aggcatttaa agatgtttct ggcattttct ttttatttgt aagggtggtg taactatggt 180
tattggctag aaatcctgag ttttcaactg tatatatcta tagtttgtaa aaagaacaaa 240
acaaccgaga caaaccttg atgctccttg ctggcggttg aggctgtggg gaagatgcct 300
tttgggagag gctgtagctc agggcggtga ctgtgaggct ggacctgttg actccgcagg 360
gggcatccat ttagcttcag gttgtcttgt ttctgtatat agtgacatag cattctgctg 420
ccatcttagc tgtggacaaa ggggggtcag 450
```

<210> 1199

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1199

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agtcacagtt gcacctattc aaaactagct ttaaagtgag ctatttttaa acttcataaa 60
aatattcatg attttattag tttgaatatt tctacaagat tcgggtgggc ttttccttta 120
ggtgaaaaca gctatccact cctgtggcct tataactcag gaaatgctgg ggatgcaaac 180
gtgcaaaagg cagggggaag ctgcccaggc tgagactgga gcagctagga gtgtgcttgg 240
ggaacgggag ctgagatccc ggagcagaaa tggtcagccg tgctctggag cagg 294
```

<210> 1200

<211> 258

<212> DNA

<213> Homo sapiens

<400> 1200

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agctacctaa gaacagctaa aagagcacac cgtctatgt agcaaaatag tgggaagatt 60
tataggtaga ggcgacaaac ctaccgagcc tgggtgatagc tggttgtcca agatagaatc 120
ttagttcaac tttaaatttg cccacagaac cctctaaatc cccttgtaaa tttaactgtt 180
agtccaaaga ggaacagctc tttggacact aggaaaaaac cttgtagaga gagtaaaaaa 240
tttaacaccc atagtagg 258
```

<210> 1201

<211> 403

<212> DNA

<213> Homo sapiens

<400> 1201

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ctgagctgtg gtctgctttg gaaaaccgtt cctgccgctg ccgatggatg gaaatgcaat 60
ggatttcagc ttcttatcat cagccagggc caagcagttt ttcaactgtct tttccagaag 120
ttcttcacac ttgtctgcac cccaaactgg actattacag tggatcacia acttggcagg 180
caggccatgg cctgcgctga cagcagctcc agctacttcc aaggggccgt tctttttccg 240
gagttccagg acagcttcca caaactcctt gccacctttc ttctccagcg tgtttcctag 300
gtcatcttta aggtcaatgt cagcatttgt aggattgatt atggcctcca cctcaaagcc 360
ggctaaatta ctgatttcac tgtgaataag gttcggcttc tgg 403
```

<210> 1202

<211> 325

<212> DNA

<213> Homo sapiens

<400> 1202
 ctgaacctgc gggagtcggc caccatcaag tgccctgggtga cgggcttctc tcccgcggac 60
 gtcttcgtgc agtggatgca gagggggcag cccttggtccc cggagaagta tgtgaccagc 120
 gcccgaatgc ctgagcccca ggccccaggc cgggtacttcg cccacagcat cctgaccgtg 180
 tccgaagagg aatggaacac gggggagacc tacacctgcg tgggtggccct tgaggccctg 240
 cccaacaggg tcaccgagag gaccgtggac aagtccaccg gtaaaccac cctgtacaac 300
 gtgtccctgg tcatgtccga cacag 325

<210> 1203
 <211> 518
 <212> DNA
 <213> Homo sapiens

<400> 1203
 ctcaaccaca gtctgacacc agagcccact tccatcctct ctgggtgtgag gcacagcgag 60
 ggcagcatct ggaggagctc tgcagcctcc acacctacca cgacctccca gggctgggct 120
 caggaaaaac cagccactgc tttacaggac aggggggttga agctgagccc cgcctcacac 180
 ccacccccat gcaactcaaag attggatttt acagctactt gcaattcaaa attcagaaga 240
 ataaaaaatg ggaacataca gaactotaaa agatagacat cagaaattgt taagttaagc 300
 tttttcaaaa aaccagcaat tccccagcgt agtcaagggt ggacactgca cgctctggca 360
 tgatgggatg gcgaccgggc aagctttctt cctcgagatg ctctgctgct tgagagctat 420
 tgctttgtta agatataaaa aggggtttct ttttgtcttt ctgtaagggt gacttccagc 480
 ttttgattga aagtcctagg gtgattctat ttctgctg 518

<210> 1204
 <211> 352
 <212> DNA
 <213> Homo sapiens

<400> 1204
 ggggaaagga ggtctcactg agcacgtcc cagcatccgg acaccacagc ggcccttcgc 60
 tccacgcaga aaaccacact tctcaaact tcaactcaaca ctcccttccc caaagccaga 120
 agatgcacaa ggaggaacat gaggtggctg tgctgggggc acccccagc accatccttc 180
 caagggtccac cgtgatcaac atccacagcg agacctccgt gcccgaccat gtcgtctggg 240
 ccctgttcaa caccctcttc ttgaactggg gctgtctggg ctccatagca ttgcctact 300
 ccgtgaagtc tagggacagg aagatggttg gcgacgtgac cggggcccag ga 352

<210> 1205
 <211> 250
 <212> DNA
 <213> Homo sapiens

<400> 1205
 ctgttcaact tccaactcta aataggcacc attaaacaaa aaaccccagt attttaaat 60
 tctccagcac acattccagg atcaatgctc tgaactgtaa tcagctagta attcataacg 120
 ggaatacagc cttagaatgg aagctatatt gcttccctgc cccctttctc ttacaattgg 180
 agagtgtagg tattaaggga tacaagtca gaggaagaat aattaaaaag aaaaatgccc 240
 aaagctgcag 250

<210> 1206
 <211> 275
 <212> DNA
 <213> Homo sapiens

aggaacagct ctttggacac taggaaaaaa ccttgtagag agagtaaaaa atttaacacc 480
catagta 487

<210> 1210
<211> 216
<212> DNA
<213> Homo sapiens

<400> 1210
ccactcagct cagcgggcca cgtgcccccta caagttggca gaagtggctg ccactgctgg 60
gtttgtgtaa gagaggctgc tgccaccatt acctgcagaa accttctcat aggggctacg 120
atcgggtactg ctagggggca catagcgccc atggatgtgg taggtggggg actcgctcat 180
aggatggtag gtatcccggg ctggaaagat gtccag 216

<210> 1211
<211> 443
<212> DNA
<213> Homo sapiens

<400> 1211
ccaaggtcag aggctgatgc aacaggccct cttctcccca gggccaggct cctgtccagc 60
ctgggcactg cccagagtga tggcattggt ccggatgctg ttctgtctct gcttggacac 120
cttcgcaaag atttctttca ggacagtctc aaaggctagc tcaacattgg tagagtccag 180
ggctgaggtc tccaggaaga gcagtccatt gttttcagcg aacattcggg cctcctcagt 240
gggcacttcc cgggcctggc tgaggctcact tttgttacc acgagcatga cgacgatcgt 300
ggcttcagca tggcataga gtccttcag ccatogetcc accacagcat aggtctggtg 360
cttggttagg tcaaacacca ggaggcccc cactgcacca cgatagtacg ccgaggtgat 420
ggctcggtag cgctccaggc cag 443

<210> 1212
<211> 526
<212> DNA
<213> Homo sapiens

<400> 1212
actgaaaccc gagtaaattgc tcaggctgct gcatatgaat acatggctgc atacatagaa 60
aatgcgaaac aggttggccg ccttgaaaat gcaatcgggt ggtatcatag ccaccctggc 120
tatggctgct ggctttctgg gattgatgtt agtactcaga tgctcaatca gcagttccag 180
gaaccatttg tagcagtggg gattgatcca acaagaacaa tatccgcagg gaaagtgaat 240
cttggcgcct ttaggacata cccaaagggc taaaaacctc ctgatgaagg accttctgag 300
taccagacta ttccacttaa taaaatagaa gattttggtg taaactgcaa acaatattat 360
gccttagaag tctcatattt caaatcctct ttggatcgca aattgcttga gctgttgtgg 420
aataaatact gggatgaatac gttgagttct tctagcttgc ttactaatgc agactatacc 480
actggtcagg tctttgattt gtctgaaaag ttagagcagt cagaag 526

<210> 1213
<211> 359
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15, 255, 258, 321, 322, 357
<223> n = A,T,C or G

<400> 1213
 ccagccattg cctgncattt ggtagtatag tatgattctc accattatct gtcattggagg 60
 cagacataca ccagaaatgg gggagaaaca gtacatatct ttctgtcttt agtttattgt 120
 gtgctgggtc aagcaagctg agatcatttg caatggaaaa cacgtaactt gtttaaaagt 180
 ttttctggta gcttttagctt tatgctaaaa aaaataatga cattgggtat ctatttcttt 240
 ctaagactac attantanga aaataagtct tttcatgctt atgatttagc tgttttgtgg 300
 taattgcttt ttaaagggaag nnattaatat cataagttat tattaatatt gtgaacnca 359

<210> 1214
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 1214
 ccaagcttga ggcagcccta ggtgaggcca agaagcaact tcaggatgag atgctgcggc 60
 ggggtgatgc tgagaacagg ctgcagacca tgaaggagga actggacttc cagaagaaca 120
 tctacagtga ggagctgctg gagaccaagc gccgtcatga gacccgactg gtggagattg 180
 acaatgggaa gcagcgtgag tttgagagcc ggctggcgga tgcgctgcag gaactgcggg 240
 cccagcatga ggaccagggt gagcagtata agaaggagct ggagaagact tattctgcca 300
 agctggacaa tgccaggcag tctgctgaga ggaacagcaa cctgggtggg gctgcccacg 360
 aggagctgca gcagtcgcgc atccgcatcg acagcctctc tgcccagctc agccagctcc 420
 agaagcag 428

<210> 1215
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 1215
 ctgaagcact cttcagagac tacgtccaca gacactgatg ctgaggcctt tcttgtaagt 60
 gaagaaaaag gaatgcagca aagaagagtt cgacattgga gtccttagtt ccatcaggat 120
 cccattcgca gccttttagca tcatgtagaa gcaaactgca cctatggctg agatagggtc 180
 aatgacctac aagattttgt gttttctagc tgtccaggaa aagccatctt cagtcttgct 240
 gacagtcaaa gagcaagtga aaccatttcc agcctaaact acataaaaagc agccgaacca 300
 atgattaaag acctctaagg ctccataatc atcattaaat atgccaaaac tcattgtgac 360
 tttttatttt atatacagga ttaaaatcaa cattaaatca ttttatttac atgg 414

<210> 1216
 <211> 162
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 118, 119, 148
 <223> n = A,T,C or G

<400> 1216
 cctggccgca ggggtccccg gtattgctgt tgctacgagg ttgggggggca gcgattgtcc 60
 tgtgggagcc accgttctcc tgggtcgggg accctcactt cttctggggg gtgctcannt 120
 tctgcatgcc ccgatcttg tccagcangc cagaaatgaa gg 162

<210> 1217

<211> 392
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 306
 <223> n = A,T,C or G

<400> 1217
 ctgaagtaga ggctggaact gaagctgaga ctgaggctga ggctgaaact ggagctaagg 60
 gtgaggctgg aactggagct gaggttgagg ccagaactgg agctaaagtt gaggctggaa 120
 ccggagctga ggttgaggct ggaactggag ttaagggttg tggaagtgga gctgaggttg 180
 aggctggaac tgaagctgag gttgaagggt gaagtggagc cgaagctaga ggtggaactg 240
 aggctgaaga ctgtgcttgc tggatccctg tagcctgttt tttggcaaat cttggaggaa 300
 gcttanaagt ctggcttctt cctttttcat ttgcattctt tttgttccag accttaaaaa 360
 attaacgggg accatttttg tcaataatgc ag 392

<210> 1218
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 379, 447, 470, 501
 <223> n = A,T,C or G

<400> 1218
 ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60
 agctggaagt ccacettaca gaaagacaaa aagaaacccc tttttatata ttaacaaagc 120
 aatagctctc aagcagcaga gcatctcgag gaagaaagct tgcccggctg ccattcccatc 180
 atgccagagc gtgcagtgtc cacccttgac tacgctgggg aattgctgat tttttgaaaa 240
 agcttaactt aacaatttct gatgtctatc ctttagagtt ctgtatgttc ccatttttta 300
 ttcttctgaa ttttgaattg caagtagctg taaaatccaa tctttgagtg catgggggtg 360
 ggtgtgaggc ggggctcanc ttcaaccccc tgtcctgtaa agcagtggct ggtttttcct 420
 gagcccagcc ctgggaggtc gtggtangtg tggaggctgc agagctcctn cagatgctgc 480
 cctcgctgtg cctcacacca nagaggatgg aagtgggctc tgggtgt 526

<210> 1219
 <211> 382
 <212> DNA
 <213> Homo sapiens

<400> 1219
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 attgaacatt cgttctgtca gcatccgctc cagcttcact gcatcagcgg caaacttgcg 120
 gatcccgctc gagagcttct ccacagccat ctggtcctcg ttgtgcaacc aacggaaaga 180
 cttctcatcc aggtggattt tttccaggct actggcttgg gccgccttgg ctgagagcac 240
 aggcaccagc ttggcgttgt cctgcagcag ctctcccagg agcttgggtg agatgggtgag 300
 gaagtcacag ccggccagtg ctttgatctc gcccggtgtg cggaaggagg cgcccatgac 360
 aatggttttg tagctaaact tc 382

<210> 1220

<211> 127
 <212> DNA
 <213> Homo sapiens

<400> 1220
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 atcagaaaact ctagaactct agttagggcc cttcagcagg gctgcagagc ctccctggat 120
 acccagg 127

<210> 1221
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 1221
 ccaccccgga gatgacacga ggctcacatg actctagaca cttggtggaa agtgaggcga 60
 gaaaaacaat gacttgggcc aattacacga ctgcaaagct agagctgcca acagggctcc 120
 agggagcttg gcttctgtag aagttctaag gaagcgggtac gaactccacg gcggtggggc 180
 gctaactagc agggaccctt gcaagtgttg gtcggggggc tcgggctgcc tgagctgaca 240
 cgaggggagg ggtctgtgta gccaacagggt gaccgaaggg cttgcctgcc cacagcttac 300
 ttgg 304

<210> 1222
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 1222
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 attggcatgt tcacctacct ggatgtccgg gtgaactctc agcatgcctc cagcaaagag 120
 ggagaacttg gtggaattgg agtgaagaca gatctggtgc tcaccagggg tatgggaagt 180
 gaaagtgaac ctgccctcgg agccatactg ccggggccagg atgaccttgt cctctgggtc 240
 ctccacctcc acaaacatgc caagccccgg ggtggccggc tgggtactcct cccgctgctt 300
 gtcatacag 309

<210> 1223
 <211> 390
 <212> DNA
 <213> Homo sapiens

<400> 1223
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 caggctctttt ttgggtcctt cttctccacc acgatatact tgcagtcctc cttcttgaag 120
 attctttggc agttgtcttt gtcataacct acagggtgtag aaacaagggt gcaacatgaa 180
 atctctgttt cgtagcaagt gcatgtctca cagttgtcag tctgccaactc cgagttttatt 240
 ggtgtttgtt tcctttgaga tccatgcatt tcctgggtga atctcctgga actccctcat 300
 taggtatgaa atagcatgat gcattgcata aagtcacgaa ggtggcaaag atcacaacgc 360
 tgcccaggag aacattcatt gtgataagca 390

<210> 1224
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 1224
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 tccgggcctc cctccaagga gattotgacc ctgaagcagg tccaggagtt cctgaaggat 120
 ggagacgatg tcatcatcat cgggggtottt aagggggaga gtgaccacagc ctaccagcaa 180
 taccaggatg ccgctaacaa cctgagagaa gattacaaat ttcaccacac tttcagcaca 240
 gaaatagcaa agttcttgaa agtctcccag gggcagttgg ttgtaatgca gcctgagaaa 300
 ttccagtcca agtatgagcc ccggagccac atgatggacg tccagggctc caccagggac 360
 tcggccatca aggacttctg gctgaagtac gccctgcccc tggttgg 407

<210> 1225
 <211> 250
 <212> DNA
 <213> Homo sapiens

<400> 1225
 ctgcagcttt gggcattttt ctttttaatt attcttctc tgactttgta tcccttaata 60
 cctacactct ccaattgtaa gagaaagggg gcaggggaagc aatatagctt ccattctaag 120
 gctgtattcc cgttatgaat tactagctga ttacagttca gagcattgat cctggaatgt 180
 gtgctggaga aattttaaact actgggggtt tttgtttaat ggtgcctgtt tagagttgga 240
 agttgaacag 250

<210> 1226
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 427
 <223> n = A,T,C or G

<400> 1226
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 agttggcaca gggtcgaag ggcccaggc agacatgaat tctcctgaga cttgaggtag 120
 gttgcttcag ccagcccggg cggagaagaa gggcagagag cgaacatagg agtccagtcg 180
 ggagcgaaag agctcacttt gcacagtttg gccagcggg cacaggggat tcttcaccac 240
 cagctccaca tacagcgcac tgtagatgtg gtgcagcaca tctcgatgg gtcccacgcc 300
 caagtcagta ttcatgacaa ctttgatccc agtgggcgtc tctagtaat ggagtttgta 360
 acggctagtt tggaaggcca ggaagccatc cttcatgtct agcggggaca tcttgctgac 420
 aaacgancgg atagagaaga gcat 444

<210> 1227
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 1227
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 aattttctgga ttcataatag caagattagc aaaggataaa tgccgaaggc cacttcattc 120
 tggacacagt tggatcaata ctgattaagt agaaaatcca agctttgctt gagaactttt 180
 gtaacgtgga gagtaaaaag tatcggtttt attctttgct gatgtccttt ctgcttgaaa 240
 taacagtcac catcacagcta aaggagagga gtttctttcc ttctaagtag gcagaaatgg 300
 tatcattatg ttgccgctct ccaatctccc agagctcgct ctctagagaa tcaccttctt 360
 tcgctttttt tttttttttg aggtagagtc tcactatgtt gccagacta gccttgaact 420

cctgggctca agtgattctc cctcctcagc ctcccagta gctggaacga actatagttg 480
caccactgca g 491

<210> 1228
<211> 279
<212> DNA
<213> Homo sapiens

<400> 1228
ctgggcggat ctgatcaact aggcaacatc atgtccggat atgagttcat caacaagttg 60
actggagaag atgtatttgg aatcaccggt cctctaatta caagtacaac tggagcaaag 120
ctgggaaagt ctgctggcaa tgctgtttgg ctaaacagag ataagacatc tccatttgaa 180
ttgtatcaat tctttgtcag gcaaccggac gattcagtg aaaggtacct gaagctgttc 240
actttectac cccttcaga gattgatcat atcatgcag 279

<210> 1229
<211> 199
<212> DNA
<213> Homo sapiens

<400> 1229
cggccgaggt ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg 60
cggaagccag cttcaattgc caatttgggt gcctctaaag ctttactttt aggaacctct 120
gcaggcgcag aggtgccaaa tcccaggaca ggcatagaat gaccatcatt cagcttcaca 180
cactgatatt tcgaatcca 199

<210> 1230
<211> 237
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 12
<223> n = A,T,C or G

<400> 1230
ctgcattgnt gnggaattca caactactca ggctgggaaa atacagattg gttcaaagaa 60
acaaaaaacc agagtgtccc tcttagctgc tgcagagaga ctgccagcaa ttgtaatggc 120
agcctggccc acccttccga cctctatgct gaggggtgtg aggctctagt agtgaagaag 180
ctacaagaaa tcatgatgca tgtgatctgg gccgcactgg catttgcagc tattcag 237

<210> 1231
<211> 277
<212> DNA
<213> Homo sapiens

<400> 1231
ctggaggtgc ctcagaaggt gcattctgct tcttgcaggg gcttgaaaca ccaaggcact 60
ccagggatcc tggagtcaaa gcagcagccc cggttgttgc actccttggg ggtgacatgg 120
gggtagccgc agtccaccct gtccttggct ggcacggcac actggtttgc agacaggccc 180
acgtactcct cagcagagct ggaggacagc aaggccagga ccagccccag catgcagagc 240
gctctggcag ccatgaccac cgtgggctcc gggacgc 277

<210> 1232
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 1232
 ctgcaacttt ttttttttgc aattacagag tggatttcag ttaacagaac aacaattatt 60
 tcgtataagc tgcacacagc acaactgaag atgaaaaaac taccatcccc atatataact 120
 aatttgtgct gtgcaccaac aagaacctgc tttaaatttc catgcccaatt tacaaccccc 180
 atactgtacc aggcaagggt agtggctatt gaaaatacca ccaggacagg gctatctaaa 240
 gacacattcg gtagtgtgtt aactatacaa aaaaagacac tgtacagttt aaaaacaaat 300
 cttacacagc cttacatttc aatttttttc tttaaaagga gtgagttg 348

<210> 1233
 <211> 312
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 160, 163, 241, 302
 <223> n = A,T,C or G

<400> 1233
 ctgagcgtac ggccgcgttc atcccagccg cgggtgcccc cacgttgatg acagctacgt 60
 tgcaatttgg ctttgggatc tgatcatccg gcagcttgat ggcaagtgc ttgtaggtgt 120
 tcaggttgcc cgcaaagctc ctccctcgga gtgcgaaccg atnttgaaat ctctctctgt 180
 ccatcgctt ctgcacatcc tgagtcattc gcacgcactc catcagcggc aggcgcacgg 240
 ngtggttccc gttcagtgac acgacgcaag ctgggggtgc cgggggtggc tctagcaagg 300
 cnatgactgc ct 312

<210> 1234
 <211> 151
 <212> DNA
 <213> Homo sapiens

<400> 1234
 ccggccgcgg gcataaaagg cgccagggtga gggcctcgcc gctcctcccg cgaatcgag 60
 cttctgagac cagggttgct ccgtccgtgc tccgcctcgc catgacttcc tacagctatc 120
 gccagtcgtc ggccacgtcg tccttcggag g 151

<210> 1235
 <211> 250
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 15, 17, 107, 161, 189
 <223> n = A,T,C or G

<400> 1235
 ctgcaccttn gggcntnttt ctttttaatt attcttcttc tgactttgta tcccttaata 60
 cctacactct ccaattgtaa gagaaagggg gcagggaagc aatatanttt ccatttctaag 120

gctgtattcc cgttatgaat tactagctga ttacagttca nagcattgat cctggaatgt 180
 gtgctggana aattttaaata actgggggttt tttgtttaat ggtgcctgtt tagagttgga 240
 agttgaacag 250

<210> 1236

<211> 154

<212> DNA

<213> Homo sapiens

<400> 1236

ctgatcctca ctattgtggg caccatcgct ggcatcgta ttctcagcat gataattgca 60
 ttgattgtca cagcaagatc aaataacaaa acgaagcata ttgaagaaga gaacttgatt 120
 gacgaagact ttcaaaatct aaaactgcgg tcga 154

<210> 1237

<211> 375

<212> DNA

<213> Homo sapiens

<400> 1237

ccactggatc tttgggatta aagctctgtt ggatttgtac ctacagaggaa gatcaagtgg 60
 ctgatccttt ggactctgta aagagcattc ttctagtcag aggggtggaat ggcagcagca 120
 actggaagaa aatgagtttt ttggtgcccc caccacagag cacacacatg ctgcactgtc 180
 tcggaaagca gggccagcta gagccaccat gttcttcctt acctcagttt acctgcggcc 240
 tgcgctgcac tgcagatgcc caccctgccc tgggtctggc cggcggaagc tctgtccaag 300
 gtccacacac ctccaggttt acgccaacat ccttgtgccc tccccacctt ctcttccaac 360
 gcattaggtg cattg 375

<210> 1238

<211> 454

<212> DNA

<213> Homo sapiens

<400> 1238

gtcaagatca agttcaatat catcgctctt ctctatgact acaaccccaa cctggcaacc 60
 tacatgaagc cagagatgtg ggggaagtgc ctggactgca tcaatgagct gatggatata 120
 ctgtttgcaa atcccaacat tttgttgga gagaatattc cggaagagag tgagaacctg 180
 cacaacgctg accagccact gcgtgtccgt ggctgcatcc taactctggt ggaacgaatg 240
 gatgaagaat ttacaaaaat aatgcaaaat actgaccctc actccaagag tacgtggagc 300
 acttgaagga tgaggccag gtgtgtgcca tcatcgagcg tgtgcagcgc tacctggagg 360
 agaagggcac taccgaggag gtctgccgca tctacctgct gcgcactctg cacacctact 420
 acaagtttga ttacaaggcc catcagcgac agac 454

<210> 1239

<211> 483

<212> DNA

<213> Homo sapiens

<400> 1239

ctgccaggct gaaaagaagc ctacgctccc acaccgccct cctcacogcc cttcctcggg 60
 agtcacttcc actggtggac cacgggcccc cagccctgtg tcggccttgt ctgtctcagc 120
 tcaaccacag tctgacacca gagccactt ccatcctctc tgggtgtgagg cacagcgagg 180
 gcagcatctg gaggagctct gcagcctcca cactaccac gacctcccag ggctgggctc 240
 aggaaaaaac agccactgct ttacaggaca gggggttgaa gctgagcccc gcctcacacc 300

cacccccatg cactcaaaga ttggatttta cagctacttg caattcaaaa ttcagaagaa 360
 taaaaaatgg gaacatacag aactctaaaa gatagacatc agaaattggt aagttaagct 420
 ttttcaaaaa atcagcaatt ccccagcgta gtcaagggtg gacactgcac gctctggcat 480
 gat 483

<210> 1240

<211> 358

<212> DNA

<213> Homo sapiens

<400> 1240

cctttatgga tgaaagtacc cagtgtttcc agaagggtgc agtacagctc ggaaagagaa 60
 gcatgcaaca attagatccc tcaccagctc gaaaactgtt gaagcttcag ctacagaacc 120
 cacctgccat acatggatct ggatctggat cttgtcagtg actttatgag agtttctgcc 180
 acaagggtgcc caagaggaga ggaatgggaa gagtgtcccca gcacgtgggtg actgctgat 240
 ttctgtctra tgctttmts atamstgacc aactgasgg cgaattmcag cacactggcg 300
 gccgttacta gtggatccga gctcgggtacc aagcttggcg taatcatggt catagctg 358

<210> 1241

<211> 194

<212> DNA

<213> Homo sapiens

<400> 1241

ccaaagggttc gtaatgcat ctctgcacca atctcctccc ccatagcaat aagggaatc 60
 ccagaacag ccactccctg atgtgctccc atgtcagcag gggcttcctt cttgtccttg 120
 tctttctttt cttctctgtc tttgtcttcc tccttctctt tggagtcaaa gtgttcgcta 180
 caaatgtgga gcag 194

<210> 1242

<211> 316

<212> DNA

<213> Homo sapiens

<400> 1242

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 tccagttcaa taataaggac aagagctttt cccatgcatt ctctttcccc gggaaagttg 120
 actgaggtga ccagtaatag aattgaaaag ggagagtgtc ttcagtgcaa tgtggcatcc 180
 tggattgggt cttggaacaa aaacaggaca ttagtgggaa aattggaaat ctgaaaaaag 240
 tctgaatttt agttaatata ccaatttcag tctcttggtt ttgacagatg taccatggtg 300
 atgtaagatg ttgacc 316

<210> 1243

<211> 275

<212> DNA

<213> Homo sapiens

<400> 1243

aaaagggtga tgaaagtatt atgtataata ttataatggt aaatatgtga tatgaatttg 60
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 ataggagatt aggaattcca ggatagaatg cagacaatat agaaaatata taatgtcatt 180
 acaaattgtat gaaatcagaa gaggtgccaa gtgacctcag aaatagtgtg gtcaataaaa 240
 gaataaagaa agtgcacgtc agaactgtac cccag 275

<210> 1244
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 1244
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 acaagcacca tttgaggatt aacaggaaca tttttttgaa gatttcaaac gaactcgact 120
 ttcagtataa ttgtacctaa agtatttata aacagctcat cggagcctct atttgtcata 180
 gacttttgag ttgattgttg ggaccacata ataggaccat tttttttttg tcttt 235

<210> 1245
 <211> 640
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 565
 <223> n = A,T,C or G

<400> 1245
 ctgatgatgt tccacaaaag agcaaaacat acacaatctg gttccactct acagaaatcc 60
 tggaaactgga ctacaaaggg aatagacagg gtgtggcagg aggggggttc tcacggttgg 120
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 ggcagatgtg tcaatrtatt tscaagttta gcataatata ggtataaaaa ttaaataaaaa 240
 atagtttaka tgtgtgtgta tatatgggtt aatacacaac acatacctcc tagagtcatt 300
 acctgagagg ttctacaaga aaagacagca aattaacaaa aaatacaccc agaatcaaga 360
 tttgagtttt ggttcctttc atagcagaat ggtatgcaac atttccttga aaaatggcta 420
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 aaataagaaa gggttccaaa atgaagaatc gtcctttttg caaaccttat ggtaacaaat 540
 ataatattta taaaaagtga attangtaat atgttaatgg agaaataaac atcattatga 600
 aatgctatct taacaaaaaa targagaaaa twttagtttt 640

<210> 1246
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 1246
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 cttoccaaact atcattccca tgggtccaaa taaatttttag aatctagtcc catccccttc 180
 ctagacaagc tgcgttcaac aatctccaag agacaaaagta agattggaag tttaaggaca 240
 cgcacacaag acatatatat aaaattctct gaatgtgcaa taaaagaagt actttgtaaa 300
 aagttatggg caaaatgtac aagggcctaa acctagacta attgaaatag caccataaca 360
 aatgacctca atactgtcaa gtgcacctac ttaataaaaag ttttagaaca aggcacaata 420
 cacttgaaaa tctattgcac tttaggaaat ttttgccgtc ttcctatgcc actgtaaaaa 480
 gatggagcgt tttgatcacc gcattctgg 509

<210> 1247
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 1247
 catatgtgga actattcttg gaaagtctac aaagtgaat ctatcgagtt atttctcatt 60
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 ttttaaaagc cctacatccc aacagaccag gccatctaga tatttcagcg tgggtgtctca 180
 ggatgagtaa acaaacagct aaaaatatat gacttatgta aactagagtt acaggagtta 240
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 gggggggggtt 310

<210> 1248
 <211> 640
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 604
 <223> n = A,T,C or G

<400> 1248
 aaagatataa aactatggag aaaactgcta aagggtatcc ctgaccttta tgatgatgca 60
 gctatttttcg aggccaaaaa atcatttttac tgggcaagaa aaacatctca ttcccttgctc 120
 gtgaatatcc ttgtcaggc tctttatgaa ttattttctg ccacagatga ttccctgcat 180
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 gcccttctca gtagtgggtc tgtattgtac aaagcgtgtt ctgtaatat ttctctaatt 420
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 accacttata aagtggaaac tcttggacca agatttggat taatttgttt ttgaagtttt 600
 tggnatataa atatgtaaat acatgcttta attgcaattt 640

<210> 1249
 <211> 1108
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 527
 <223> n = A,T,C or G

<400> 1249
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 atgtatcttg ttccattttt aacaggaagt ccttcacgca aatgtgtgag tctcccagga 120
 tgcataagac tccagccttt tcgtgggtgac tcaatagagc aattgtacct tacaaatktg 180
 caaccacctc cctgaaagtc ttctcccacg ttattaagtg caatgyttat ggtaaatgta 240
 gaagcatcat gatgaggacg aagagaacgc tgtcgttcag gggagtattt tactacaaaa 300
 ttcagtagtg caaatccctt cgtataatag cctgcaaaga ccttcagtgt aactgggtgca 360
 atgaactccc ggataaaatg aagccataca ttctccagat caacttgctt catgtggata 420
 tcatcagttg ggacattttc ataaccacca gatatacggc tatcatgatg tttttcccca 480
 gaccatttgc cgtaatgttc catttcttct accaattcat cacaggncct tttcagaaaa 540
 tatggggaac cmaaaagaca tctggacagg gctgttcaam ctatatattc agtgaaaatc 600
 tttgaataat ccmcggttta tatacttttc cttccagtcc acaggatttt caaaaatctg 660

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ccagagggtca ttgtttataat gggaagtatt gtaattagca gtggataata gccttccaaa 720
ttcatgtcta ttagaaatgt acataaatac accctttggg gggctgagca tttggaatgt 780
ttccggagta ggggagttct tttccctttg taaagtcatt tctctagcat ttcggcaaag 840
agccatatca ggatccagtt tatcacgaac aaaatagctc ctttcattca tctctgatcg 900
gagtgtcttt cctttaatta agtacacatt agccatatat gggacattcc atactcctac 960
tctattccct tgaacaatat ccacataatc ttcagatcgt gcatagtatc catcaggact 1020
caatgctccc cagaaattgg accacagctt tccatgacga gttacaagag gagcaatgat 1080
ctttctgttt tgttcaatca aaatTTTT 1108

```

```

<210> 1250
<211> 567
<212> DNA
<213> Homo sapiens

```

```

<400> 1250
ctgaatattg aactggaagc agcacatcat taggctttat gactgggtgt gtgttgtgtg 60
tatgtaatac ataatgttta ttgtacagat gtgtgggggt tgtgttttat gatacattac 120
agccaaatta tttgttgggt tatggacata ctgccctttc attttttttc ttttccagt 180
tttaggtgat ctcaaattag gaaatgcatt taacatgta aaagatgagt gctaaagtaa 240
gcttttttag gccctttgcc aataggtagt cattcaatct ggtattgatc ttttcacaaa 300
taacagaact gagaaacttt tatatataac tgatgatcac ataaaacaga tttgcataaa 360
attaccatga ttgctttatg tttatattta acttgtatgt ttgtacaaac aagattgtgt 420
aagatatatt tgaagtttca gtgatttaac agtctttcca acttttcatg atttttatga 480
gcacagactt tcaagaaaat acttgaaaat aaattacatt gccttttgtc cattaatcag 540
caaataaaaac atggccttaa ctaaaaaa 567

```

```

<210> 1251
<211> 655
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 161, 175, 193, 200, 211, 212, 223, 228, 324, 396, 518, 546,
559, 565, 571, 584, 597, 601, 610, 613, 622, 639
<223> n = A,T,C or G

```

```

<400> 1251
gaaagaaacc aatttaaatgc caccaaacat aagcctgcta tacctgggaa acaaaaaaatc 60
tcacacctaa attctagcag agtaaacgat tccaactaga atgtactgta tatccatatg 120
gcacatttat gactttgtaa tatgtaattc ataatacagg nttaggtgt gtggnatgga 180
gctaggaaaa ccnaaggagn aggaaattat nnaaaagaac tgnaggtnaa gtataaagtc 240
atatgcctga tttcctcaaa ccttttggtt ttcctcatgg cttctggctt tatattttta 300
tcacaaacca agatctaaca gggntctttc tagaggatta ttagataagt aacacttgat 360
cattaagcac ggatcatgcc actcattcat ggtgntcta tgttccatga actctaatag 420
cccaacttat acatggcact ccaaggggat gcttcagcca gaaagtaaag ggctgaaaaa 480
gtagaacaat acaaaagccc tcgtgtgggg ggaactgngg gctcactctt acttggcctt 540
cattcnaaac aggttgggnc tttcntgcga ngatctctca gggnggtaaa aactttntgg 600
ntttcaacan aanaggtttg gntgaatgat tactcgcnng acacctaagg gatcc 655

```

```

<210> 1252
<211> 672
<212> DNA
<213> Homo sapiens

```


ttaatatgtt ttcagtgttc tctaattttt tggaattttt gtagacttta cacctggaaa 360
 aaaagatttg taaaatcacc ggaacaattg tgtgctttat tttataggta gtggttatta 420
 gtattacatc cccatttt 438

<210> 1255

<211> 519

<212> DNA

<213> Homo sapiens

<400> 1255

caagcacagg ggagtttata gttctgatgt ctttgacatt ttccctggaa cataccaaac 60
 cctagaaatg tttccaagaa cacctggaat ttggttactc cactgccatg tgaccgacca 120
 cattcatgct ggaatggaaa ccacttacac cgttctacaa aatgaagcat cttctgagac 180
 tcacaggaga atatggaatg tgatctaccc aatcacagtc agtgtgatta ttttattcca 240
 aatatctacc aaggaatgac caggagaata agatcctccg atgttcgcaa tgggtgtggtg 300
 tcaggaggct gcctcttaga caatctccag atgtactgtg atgtgagttt gaaaaagagt 360
 tcctgaagta ccacatctgg gagacatgcc actagctgag cttcccaaaa gtctaccaag 420
 agctgaggaa ttgtatcttc atccttagca caaagcacct taaaaacagt aaaaggagcc 480
 tctatattcc agataaatat agcactgata aagcgacag 519

<210> 1256

<211> 178

<212> DNA

<213> Homo sapiens

<400> 1256

ccatgcagga gttcatgac cctccagtcg gtgcagcaaa cttcagggaa gccatgcgca 60
 ttggagcaga ggtttaccac aacctgaaga atgtcatcaa ggagaaatat gggaaagatg 120
 ccaccaatgt gggggatgaa ggcgggtttg ctcccaacat cctggagaat aaagaagg 178

<210> 1257

<211> 255

<212> DNA

<213> Homo sapiens

<400> 1257

gggtccactt gctgccccat cattgtatca ccttcottca atcttttggc tgccactctc 60
 atgtagggat ccacggtgag gaacaaagct tcaagcagga cctctccatt ttttaagggt 120
 gggagctcag atgtcttcaa ctcaaagtca ctattagtag gatagccaac aaagtgcctc 180
 ttcaggggtc atgtcttagt acgaaccatc ctgaagctca ggagcccgaa ggttccactg 240
 cctggggaag gcggc 255

<210> 1258

<211> 630

<212> DNA

<213> Homo sapiens

<400> 1258

aaaactaaaa gcatcactgc tgaactccag ctcagtcttc ccattttata atgaggactc 60
 tgaagtttat agagggtcaag gacttggtcca aagctttaga tatgtagtgt ctgtgccctt 120
 ttctctaaag tttctcctag agaatgtggg ggctcaggaa cagagaaaat aagggtgcaa 180
 aagtagaaat ggggtggtggt tctcaaagtg tgggtccatct gcatcctagt gactggggtg 240
 cttgttaaaa tgcagattgc tgggccttat cccaatctga ccaaatcatc tcaggatcta 300
 ccttttgaac aaacttgctt aggtcaaatt cactcttgtg gaagtttaag tacttcagaa 360


```

tagttctgct gataaagatc atcagttttg aaaggttact gattttctctc ttccctctta 120
gttttttacc caatatatgg agaagagtaa tggccaatct taacattttg ttttaattgt 180
ttaataaagc tgctgggcag tgggtgcagca ttccctaccta gtgtcataaa agcaaaatac 240
ttacatagct ttcttaaaat ataggaatga cattacattt ttaggagaaa gtaagttgct 300
ttgcaccgcc tacttaattc ttttccatat attgtgatac aaacttttga atatggaatc 360
ttactatttg aatagaaatg tgtatgtata atatacatatc atacataagc atatatgtgt 420
gtgtgtgtgt gtatatatat atatatgcat gctgtgaaac ttgactacac aacataaatc 480
acttttt 487

```

```

<210> 1264
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<400> 1264
ctgcttcaac agagtggcag caaccaagct ggagtccaag ccccttgata aaaggcagcc 60
aatccttctg tctgtcatca aacgtttctt tacagcatta ttaaaaagga tcctgaggtt 120
gttcttcaca gtttctatct caaaacctgg aaagagtttc tccacattgt catagagggc 180
gtgcaggggt tcatcccgac agtcatgata ttttaaccatt tccacggatg caactttgcc 240
atttggttt 250

```

```

<210> 1265
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<400> 1265
aaatatttgt tccaaccttt ttcgttggtg gcatttatgg otittggagca ctgtcaggcc 60
catgttcatt accgtgagct cctgtgcatc tcctaatttc caaactagcc tggaaaacgc 120
ctccattgac catgattggt tcatggtcct gtgcatggaa catcatatgt tcaggagat 180
aaagaactct gatagtggca cctgggtaaa aagtacaatc cattatatct ggatatcaag 240
atcttttgca gttgaagaga ggtattgcca cagagaaaat tataggagca gaagaaagtc 300
aatgaaagtc aatgatgaca ctccattagg aaccagaaag atggtattta tttatacata 360
taataggtgt aagagattag aggaagcctg tcac 394

```

```

<210> 1266
<211> 229
<212> DNA
<213> Homo sapiens

```

```

<400> 1266
ccacagtgtg atcatatagc atctctaaca tttcatctag gattatctag tatagatctt 60
actatatttg gggctatggt gtatacaatg ttaacaagaa catatcttct ctgcatatat 120
gtgtgaatta taaagaaaag catgagaatg actctaagtt caacaaacat ggggtgaatct 180
ctatgtgctc ccagtgtcct ggatgggctc ccagcaagc cattcctcc 229

```

```

<210> 1267
<211> 722
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 658

```


<223> n = A,T,C or G

<400> 1267

```

aaatcttata aactttccaa attttcatac taaaatatat tattgtatta atacaaacta 60
cagtattata cactacactg tgtaataaat aaagaaatat aaaaataaga cacataaata 120
taaaagtttt ctaaaactaa aagtacatat gtcagtaaga agggatttaa tactgccagg 180
tttgaagaca tacagtacaa aaatgttgca cagatctata aactaaaaga aataaaataa 240
tactgatagg taaaaatcag ctaatgttgt taataaattg ggtccataat aactaacatt 300
tggaacacgt tatgagccaa ataacaatag catgtccatg tctgaaatgc aagtacatgg 360
ataaagcaga ttagaaaatt tccctttcgt ttctgtagag aaattctgaa aatcaatcaa 420
cataaaatca ataccgagga attgaaggat gaaatgtccc agtgtttcag tttctctgac 480
agagtcagtg gttttaagtt ttatttgagg attttgatac aagagacaaa tcaacaaatg 540
ctagttattg taggccacac attggatgaa ggcgggttag agccttgaaa atactgagaa 600
atggcactta cagcacacag gtcttgctta agggcaaagg agatacaaag cttcatgnca 660
tctcttcat atggtaccac atattcaaac accatcccaa cactgatctg atgattttgc 720
tg

```

<210> 1268

<211> 407

<212> DNA

<213> Homo sapiens

<400> 1268

```

gatgacacaa gcagctaata accatttctg ggtttctgcc taacccccta attgtctgtt 60
aaagccaatt ctctgggtgt ccagtgagt ggtggctttt tttctttcca cattggcaca 120
ttcacttctc ccactcttgg catgtaagaa ataagcattt acataattgg aaaaatctgg 180
atttctgatg ccaaagggtt aaagcttctt ggatttcatt tcattgatat acagccacta 240
ttttattttt gatcagtggc ctttgggcca ctgttcaggg tactgacct cagtgtcagc 300
attagggttt tgggttttgt ttcttttggg tatttctttt ttggcacatg tgaatcttgt 360
tttgtgtaaa atgaaattac tttctcttgt tctctgatga tgggtttt

```

<210> 1269

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 613, 629, 643

<223> n = A,T,C or G

<400> 1269

```

ctgaaaaaga gtgacctca atatacctaac taactggtcc tcaactcaag cagagtttct 60
tcactctggc actgtgatca tgaaacttag tagaggggat tgtgtgtatt ttatacaaat 120
ttaatacaat gtcttacatt gataaaattc ttaaagagca aaactgcatt ttatttctgc 180
atccacattc caatcatatt agaactaaga tatttatcta tgaagatata aatgggtgcag 240
agagactttc atctgtggat tgcgttgttt cttagggttc ctagcactga tgcctgcaca 300
agcatgtgat atgtgaaata aaatggattc ttctatagct aaatgagttc cctctgggga 360
gagttctggg actgcaatca caatgccaga tgggtgttat gggctatttg tgtaagtaag 420
tggttaagatg ctatgaagta agtgtgtttg ttttcatctt atggaaactc ttgatgcatg 480
tgcttttgta tggataaaat tttgggtgaa tatgatgtca ttcaactttg cattgaattg 540
aaattttggg tggatttata tgtattatac cctgtcacgc ttctagttgc ttcaaccatt 600
tataccattt tgnacatatt tttacttgn aatattttacc tgncccggcc ggccgtcgaa 660
agggcgaaat tcaac

```

<210> 1270
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 1270
 ccacccctggg cggagctaaa gttgcagaca agatccagct catcaataat atgctggaca 60
 aagtcaatga gatgattatt ggtggtggaa tggcttttac cttccttaag gtgctcaaca 120
 acatggagat tggcacttct ctgtttgatg aagagggagc caagattgtc aaagacctaa 180
 tgtccaaagc tgagaagaat ggtgtgaaga ttaccttgcc tgttgacttt gtcactgctg 240
 acaagtttga tgagaatgcc aagactgg 268

<210> 1271
 <211> 307
 <212> DNA
 <213> Homo sapiens

<400> 1271
 cctactcttc tccgtccatt gtactatctg cccgtggtgg ggatggcagt aggatcatat 60
 ttgatgactt ccgagaagca tattattggc ttcgtcataa tactccagag gatgcgaagg 120
 tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaatttttag 180
 tggacaataa cacatggaat aataccataa tttctcgagt agggcaggca atggcgtcca 240
 cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctggtcattt 300
 ttggagg 307

<210> 1272
 <211> 798
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 613, 619, 703, 726, 773
 <223> n = A,T,C or G

<400> 1272
 ccattgctag aaattgaatc acaaataata gctaataatt tttcattttt caaaaaagat 60
 catttgata gcagctatgt ataaaatgga aaataaaaaa ttattctatt ttgcatgaat 120
 agttcagact ttccataacc acagccaagc agtaactaaa attaggatct taattttcaa 180
 tgataaaaagg tctaaggttc atttaattat gtccttttaa cactgtcttt ctgattttt 240
 caccagtat tttcaaaatt tgggaatgta aacaattgat atatttattg tatgttggct 300
 agcagttcat ctttctgcaa aatatgcatt cagagaaatg tgaagcttgt tttaatgaag 360
 acttaaacca tttgtgtcat ttgtgttttc atattcaaatt acaccaaatt aaaattctga 420
 acctatattt ttcattcatta acttcctaatt ataccagaac atataccttt ttcattgtaa 480
 gttggcaatg ggatatggca gttttatttt tgaaaaatat gtaacatgac tttaattatt 540
 ttatagtatt cagaattaga aacataggaa gggaaaatgt tttaattaga taagtcaact 600
 ttttatgggc tgnagtggng actataatag caaattataa agcattatta aatgggtata 660
 ataattttta tattacctca ttatgaatta actaaaataa agnggagtga tttttttaat 720
 ggggtgntcat actggagctc ctgagatata tgatttgcta ttgactcact ggntgattga 780
 ataatatatt actgcgag 798

<210> 1273
 <211> 664

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 623
<223> n = A,T,C or G

<400> 1273
 aaaatatacc ttttcacagg tagcaagaaa tagtacctgt aataagtcctt tatgactgga 60
 atgatccaga aatatcacaa agcatgagta aacacatata taaaagtagc tcatcatttc 120
 caaaagttaa cttttagcct ttgtgtaaaa taaatgggtgc caacaatcctt tataatgtag 180
 caagctttcc ctgtttaata tccaaaaaat ggagggtggg gaggttgaag aaaaaataaga 240
 aaagttagca aataagatag tgaaaagacc aatgcagaga aaagtttatg taatcaaadc 300
 ttgctttgtc tccacattat cacattttta gtggataaat ttatgtaaac agaaaaagat 360
 gtccacaaaa ccatacttat agatgtcatt tggaagcatc aagaaattga taagtatgtg 420
 gtgaattaaa attactttta taatgttttg ctttcattaa tgtttgttat tgcaaaaaatg 480
 taagatttcc tacaattttg tcttcaaadc ccaatctagc ccttcaaact tttatccagg 540
 ttctccagaa tatttggagt ctttgttatc aaagcacaag gaaagctggc attcattatc 600
 agacttcgct gctttacaat ganttcaaat catttcatga tacaataaaa gtgcctctga 660
 ctgg 664

<210> 1274
<211> 153
<212> DNA
<213> Homo sapiens

<400> 1274
 ccacaataaa gtttacttgt aaaatttttag aggccattac tccaattatg ttgcacgtac 60
 actcattgta caggcgtgga gactcattgt atgtataaga atattctgac agtgagtgc 120
 ccggagtctc tgggtgtacc tcttaccagt cag 153

<210> 1275
<211> 504
<212> DNA
<213> Homo sapiens

<400> 1275
 aaaattctga taaaaattta ctcaattaca ttttatacat taatatttag tgaatttgtc 60
 caaaaaggct atgtttaatt tatgtgtaaa aataacaaaa gatgtatcag tcagtctctg 120
 ggcaataaga aaggaagaaa gccttgctag aaataataaa taatctcacg caaaaggcca 180
 ggtgacataa gaatactaca ataataataa tgttttcttt gtatttacia taaaatccat 240
 ctgttaacac tgtgatagaa aaaataatca gtccacatca tgtaataaaa acaggctttg 300
 aggatgatta tacctcttat aataaaaaaca tacaaggatt tctcacagct aaagtacttt 360
 tcaactttga caactaatga cagtcattggg tgaaggtaaa actgacagag tacttttagat 420
 cagctatgtc ctacagtcac ggaatcaagg gcattaccca tttaccaagc agcaaaaagc 480
 actttcattt ttccagaact attt 504

<210> 1276
<211> 533
<212> DNA
<213> Homo sapiens

<400> 1276

```

gacaatgatg tcaactgtttg gagcccccag ggcaggattc atcaaattga atatgcaatg 60
gaagctgtta aacaaggttc agccacagtt ggtctgaaat caaaaactca tgcagttttg 120
gttgcatatga aaagggcgca atcagagctt gcagctcatc agaaaaaat tctccatgtt 180
gacaaccata ttggtatctc aattgcgggg cttactgctg atgctagact gttatgtaat 240
tttatgcgtc aggagtgttt ggattccaga tttgtattcg atagaccact gcctgtgtct 300
cgtcttgtat ctctaattgg aagcaagacc cagataccaa cacaacgata tggccggaga 360
ccatatggtg ttggtctcct tattgctggt tatgatgata tgggccctca cattttccaa 420
acctgtccat ctgctaacta ttttgactgc agagccatgt ccattggagc ccgttcccaa 480
tcagctcgta cttacttggg gagacatatg tctgaattta tggagtgtaa ttt 533

```

<210> 1277

<211> 78

<212> DNA

<213> Homo sapiens

<400> 1277

```

ccacaggaag ttgcaaaaat tagatggact ctgtgtagct agccactctt gagtgtcagg 60
tctgcatatg tgagtttt 78

```

<210> 1278

<211> 560

<212> DNA

<213> Homo sapiens

<400> 1278

```

aaatatctaa aacaatggcc cactgaagaa aggaacaatt aactcttta ttaattcctt 60
aggataagta cccagaaatt taacagctag ggcagacttc taatacaata ccgaaagtcc 120
ttccaaaaac caagtgggtg ccaacttatg tcccttagca ttataacatt cttgagccaa 180
tagtgtaaaa atacgctgac aattttatag gcaaacatta ctcaaggat cttactttcc 240
acttattact aaagtaatta acccctaaat agatgctcct caacagtggg actacatcct 300
ggtaaaccta tcataagttg aaactatcaa gttgaaatgc atttagtacc cggataaacc 360
tatcataaag ttgaaaatgt gtaaattgaa ccagtgtaaa tcagaggcca tcttacttca 420
tactcatgaa gcaactatag tgggataatt ttcaacttac gagatagcct aggcttggtg 480
aaacactgtc ctaatttact ggctctctgg taattaagtc ataatgggtc aaacatcaaa 540
ttctagaaaa gcatatatgt 560

```

<210> 1279

<211> 580

<212> DNA

<213> Homo sapiens

<400> 1279

```

aaaggagatt gtttcaaaat atttttgcaa attgagataa ggacagaaag attgagaaac 60
attgtatatt ttgcaaaaac aagatgtttg tagctgtttc agagagagta cggatatatt 120
atggtaattt tatccactag caaatcttga tttagtttga tagtgtgtgg aattttattt 180
tgaaggataa gaccatggga aaattgtggt aaagactgtt tgtacccttc atgaaataat 240
tctgaagttg ccatcagttt tactaatctt ctgtgaaatg catagatatg cgcagtgttc 300
actttttatt gtggtcttat aattaaatgt aaaattgaaa attcatttgc tgtttcaaag 360
tgtgatatct ttcacaatag cttttttata gtcagtaatt cagaataatc aagttcatat 420
ggataaatgc attttttatt cctatttctt tagggagtgc tacaaatgtt tgtcacttaa 480
atttcaagtt tctgttttaa tagttaactg actatagatt gttttctatg ccatgtatgt 540
gccacttctg agagtagtaa atgactcttt gctacatttt 580

```

<210> 1280

<211> 307
 <212> DNA
 <213> Homo sapiens

<400> 1280
 aaacacatac gaagaaatca actgtgatta tgaagtggca gccagctaaa tatgtcttgt 60
 atttgctctc ttcccttttt tgccctaactc atccctttact tccattcctg cttccatggg 120
 aatgcaggct caaataaatt actaggatac aagattactt caagcctctt ttctgtggaa 180
 ctcataatat gataagcatt tgttacaaga ttgcctgtag ttgtttaggg gataaattat 240
 attagggaaa gaaagtcttt ctttagttgg ttaaattttc tattataatt gggactactaa 300
 tttatatt 307

<210> 1281
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 1281
 aaaatatatt aatagttaca tagcacttta gtttgctgat ttaatttatc ccaagggaca 60
 aggatgttaa tgagaaaact gactagattt cagatcacag attttaagag aacaaggatc 120
 tcaaaaccaa ataccctctg cttaaagtgt tttttgtgtt ttccactact gaaaatgttt 180
 agagattgac ttacctattg ctgatactca aaacatctga tatcttaata ttttt 235

<210> 1282
 <211> 230
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 194
 <223> n = A,T,C or G

<400> 1282
 aaagaatttc tttataagat tkactgtmta agattaatag cattcgaaga tccccagact 60
 tcatagaata ctccagggaaa gcatttacct csgtcgctga ccackctarg ggcsawggcc 120
 agcacactgg cggcggttac tagtggatcc gagctcggta ccaagcttgg cgtaatcatg 180
 gtcatagctg attnctgtga ggtaccagat tgcctgtagt tgtttagggg 230

<210> 1283
 <211> 638
 <212> DNA
 <213> Homo sapiens

<400> 1283
 aaacacaaca gctataaacc tgaacacata tgctatcatc atgccataag actaaaacaa 60
 ttatatattag cgacaagtag aaaggattaa atagtcaa atacaagaatga aaaacgcagt 120
 acatagtgtc gcgaactcaa atcggcattt agatagatcc agtgggtttaa acggcacggt 180
 tttgcttata aaaaaagtgc aaaaaagatg tggtttacia gttaaagcta cagaatccct 240
 ttttgctgta attgcaccag ttttaaagcc tctggacaga gcagtatttc gtttaaaact 300
 ttgttyttct taaaagctta cagtgtttgg ctaattctcc tcyccctttt acaagacggg 360
 ggccggaggg tggacactgg tggcagggtta agggatactg tcaactttaag aagcctgcag 420
 attgaagtgt aaacatggag aaattagggg ctgatttttt aaactgtgtg agatattaac 480
 cagccgccct gttataaaat caggaaatcc aaacagcgat ttacaccgat taacaccccc 540

tttatatatt ttttacaaaa atacactgag aaaataatca aacgttttca tctctcttgt 600
 ctttttttgt tttttaaag tgtcaaaagt ctacattt 638

<210> 1284
 <211> 745
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 715
 <223> n = A,T,C or G

<400> 1284
 cgacggtatc gataagcttg atatcgaatt cctgcagccc gggggatcca ctagttttga 60
 atttacacca agaacttctc aataaaaagaa aatcatgaat gctccacaat ttcaacatac 120
 cacaagagaa gttaatttct taacattgtg ttctatgatt atttgtaaga ctttcaccaa 180
 gttctgatat cttttaaaga catagttaa aattgctttt gaaaatctgt attcttgaaa 240
 atatccttgt tgtgtattag gtttttaaat accagctaaa ggattacctc actgagtcac 300
 cagtaccctc ctattcagct cccaagatg atgtgttttt gottacccta agagagggtt 360
 tcttcttatt tttagataat tcaagtgtt agataaatta tgttttcttt aagtgtttat 420
 ggtaaactct tttaaagaaa atttaatatg ttatagctga atcttttttg taactttaaa 480
 tctttatcat agactctgta catatgttca aattagctgc ttgcctgatg tgtgtatcat 540
 cgggtgggatg acagaacaaa catatttatg atcatgaata atgtgctttg taaaaagatt 600
 tcaagttatt aggaagcata ctctgttttt taatcatgta taatattcca tgatactttt 660
 atagaacaat tctggcttca ggaaagtcta gaagcaatat ttcttcaaat aaaanggggt 720
 taaactttta aaaaaaaaaa aaaaa 745

<210> 1285
 <211> 190
 <212> DNA
 <213> Homo sapiens

<400> 1285
 cgacggtatc gataagcttg atatcgaatt cctgcagccc gggggatcca ctagttatta 60
 atagtaatca attacggggt cattagttca tagcccatat atggagttcc gcgttacata 120
 acttacggta aatggcgcgc accgcggtgg agctccagct tttgttccct ttagtgaggg 180
 ttaattgcgc 190

<210> 1286
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 1286
 ctgcatcttt ctacaattct accagcaata tatgagggtt acaatttctc yccatctttg 60
 tgaacgcttg ttagagtctg tctctttttc ttccattctg tgggttggt ttttactttc 120
 taaatggtag aaccttcaaa gcacaaaggt ttt 153

<210> 1287
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 1287

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aaaaacacaa aacactagaa cagttgctat gaaattactg ataatgatcc ctttaataaa 60
ctgcaattaa ccactaatat agaaattcaa ttttaagcaag aagttttata tattatactt 120
tacagaaaaa aataattttg aaaaagtaat gmcaaacaga gatcaaacat ttagggcatt 180
agttactgca ttctcttttt agaataataca ttaagtaaca ctagtaaaat tt 232

```

<210> 1288

<211> 90

<212> DNA

<213> Homo sapiens

<400> 1288

```

aaacttagtg actatttagt tcaattgytc atccattttt tatttgcttt tataattgcc 60
tccttgTTTT ggtatattgt aaaataattt 90

```

<210> 1289

<211> 670

<212> DNA

<213> Homo sapiens

<400> 1289

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aaatcacaaa gtaaggcacc attggattaa acattttctcc tggcttttac taagtaaaat 60
gcatagttaa ataaatactg aacactgagt ttttaatactg taatacattt caatataaaa 120
taagaggtga atgttaaaat actgtattac atgttgaaata catttatctg aaaatgttat 180
aaaaaaacac acatgtaagc tctgatttca gggaagaaaa attcattttt gtaattttcc 240
atagtTTAAG attttaccac agaacttatt catagtTTTA gatgcaatta ggttgcaaac 300
tttcaaagaa aggggtgtagg tgtattaatg aaacagtcac ttaaacacta cattctaaaa 360
caatctatct tggatgaatg gcaactttga gctatcaccc tggttcagat ttagaacggg 420
acctgccaag ttcagatatg caaaggaatt gtccaattct tactaccctt tataaaattc 480
agaactcactt tctctgagtc agacttttct ccgctcatatt ttctaggaag ggcaaattcc 540
atcttttTgT aaatgggtca ttaggcttta tcatagggat gtttttTcact gttgaaatca 600
gataaaagaa tcccaaataa atgatgctgc taaattacca aactgctaga gattaaaaaa 660
attttttttt 670

```

<210> 1290

<211> 352

<212> DNA

<213> Homo sapiens

<400> 1290

```

aaacaatgct acaccattt ttggcaaagt gctgtattgt tcagtctgtg tacaaaactg 60
accatctatg aaccaatcag tataaaaaat ttctataaaa acaaaattta gacagtggct 120
caagaaaaca agctgccatt tatgcataga ttgatgtaca gtaacctaac caaatgtccc 180
ttttgaattt tcaagttact gaaaaaaaat gtgtcgagaa acacattaag aaggcacatg 240
tacagtctac aatactcttc agtctcccta actcatgcc tgccctata aaggaaatat 300
gttcacaatt ttacttgaga aaaaaaaca aagccactta aaaaaaaaaa aa 352

```

<210> 1291

<211> 99

<212> DNA

<213> Homo sapiens

<400> 1291

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aaaaattatt taaggtaatg gtgttacgaa tggtttaaaa atgtctggtg acttgcttat 60

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ttttaagtga tcaccattaa gtcagaaaaa tgtatTTTT

99

<210> 1292

<211> 295

<212> DNA

<213> Homo sapiens

<400> 1292

aaatatacct ttattttctca aactcaaagc tttatcaagt tctaacacat ttgcatgga 60
 caagtgattt tatctgcatc aagtaagggt agtgaccacc acgaaagagg aatccccaga 120
 cctcctaggc actaagaaat atttcaaagg ctatgcaa atagaacaaa aagctttcaa 180
 tttagtctaa ttggtatcta tttttcatct atattaattt ggaaataagt tgctacctta 240
 gaaaaattac atttttatcc attaaaataa aacaccagat aggttgagtt ttttt 295

<210> 1293

<211> 256

<212> DNA

<213> Homo sapiens

<400> 1293

agattcactt caaagtgaaa atgacaacac atctcaagaa actcaaagaa tcatactgtc 60
 aaagacaggg tgttccaatg aattcactca gggttctctt tgagggtcag agaattgctg 120
 ataatacatc tccaaaggaa ctgggaatgg aggaagaaga tgtgattgaa gtttatcagg 180
 aacaaacggg gggtcattca acagtttaga tgttcttttt attttttttc tttccctca 240
 atcctttttt attttt 256

<210> 1294

<211> 90

<212> DNA

<213> Homo sapiens

<400> 1294

aaaatactta gctttattaa agacatggta ctaaaaataa cagattccaa catttgctct 60
 atttctactt atatatacata aataagacag 90

<210> 1295

<211> 519

<212> DNA

<213> Homo sapiens

<400> 1295

ctgtcgcttt atcagtgcta tatttatctg gaatatagag gctcctttta ctgtttttta 60
 ggtgcttttg gctaaggatg aagatacaat tcctcagctc ttggtagact tttgggaagc 120
 tcagctagtg gcatgtctcc cagatgtggg acttcaggaa ctctttttca aactcacatc 180
 acagtacatc tggagattgt ctaagaggca gcctcctgac accacacatc tgccaacatc 240
 ggaggatctt attctcctgg tcattccttg gtagatattt ggaataaaat aatcacactg 300
 actgtgattg ggtagatcac attccatatt ctctgtgag totcagaaga tgcttcattt 360
 tgtagaacgg tgtaagtggg ttccattcca gcatgaatgt ggtcggtcac atggcagtg 420
 agtaaccaa ttccaggtgt tcttggaac atttctaggg tttggtatgt tccaggga 480
 atgtcaaaga catcagaact ataaactccc ctgtgcttg 519

<210> 1296

<211> 419

<212> DNA

<213> Homo sapiens

<400> 1296

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aaagcaaaca gcagaaacca gaagcttctg accctctaac atgtattact gtccaacca 60
ccatgagaag tatgttcaact tggtgacaac aaagagactc cgtatcatat gtatgttaat 120
gaccagattg ttcatatggg atttttctta acagattatc aggttgagaa tgattctttt 180
tctccaaggg caagaaaaag ctggctaaat gctagttaat taaatccatt ctcaattttg 240
aactgtagag aagaacctga cttgaatgag attttctaaa ggaagacatt tcttgctcaa 300
cctcaggtat aattagatta taaggaaatc cactgccaga attttatctg ctgattgtta 360
gtatggtagg taattggcct taggacacta tttctactag aaccctttac attattttt 419
```

<210> 1297

<211> 199

<212> DNA

<213> Homo sapiens

<400> 1297

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caggctctgaa gattttacat gcagatacca gataccttaa cttgtatttc tttagtcata 60
ttttggcttg gaagtttctt ctgttgtctt tgctgaatcc ttcgctttac ctccattctt 120
aggtgctttg gagctggaag cagccttctt gcacttatcc tttgctgtgt tctgtgaggt 180
ttctgtagtg gagggacag                                     199
```

<210> 1298

<211> 484

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 437, 456, 467

<223> n = A,T,C or G

<400> 1298

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aaatacactt gaaaagtaaa atgtttttct agcttttccc tcagggcgta acaccacacc 60
attcataaca atgctatttt ccaaagggtt caattagatt tcctcagaag catacctgaa 120
ctgttaaatca ttacaactcc tttgtgaaac atgggactgg ttgattaccc agtgtaatca 180
ctggtgaaa cctcagcaca ctgtttttca cccagtgga ggcaggtttt cacctcccct 240
ctagctgtac ccctctctta atgcccata tagagaaactg tgatcttctt tctccactag 300
aaatgttcac tttcatcagg taagggataa aacaaaaaca agagacagaa gatcttaaaa 360
aaaaaaatag taatagggca agtaaaactca gtgagggttag aggaatttgt ttggggggca 420
ttctatgttg ttagytncat atcatgttca gtttgntggt tctaganccc tctgaaatgc 480
atta                                     484
```

<210> 1299

<211> 419

<212> DNA

<213> Homo sapiens

<400> 1299

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aaagtccatc tttgcaaatt atacgttgct ataaatacat tgtgtatttg gcattatgtg 60
aatttgttta atccagtgtc aattgtctaa tgggtctaaag tgtccatttg aagttataat 120
ctggatgaac tgaacaataa gagaagtttt cttcattagc ccaattgttt atcactcaat 180
tcctactcct gcccatggtt tcttccacct tcctctggag aacataaaga gattctagat 240
ctctgtataa ggtggtttgc tttagcttga aatcatcagt gaggattata catgggcaat 300
```

gtccagaaat cacattattg ctcatagacc gtgtagtctt gatctaacgg ataactgtac 360
attgtcttca ctaagaagct aggggtggtg tccttgatat tgggacattg tagacttgg 419

<210> 1300
<211> 182
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 5
<223> n = A,T,C or G

<400> 1300
ccntngaatt gtgtgcatag ggaagcactc acccaatgag actttctcca atgtggactc 60
tgtgtgtcag ggaatgaatg tagaaaaatt cactttggag ggttatcac tcaactagta 120
agaagcatta atattattaa agtgaagaaa ctgcagagaa aattacagaa caaaactgta 180
gg 182

<210> 1301
<211> 312
<212> DNA
<213> Homo sapiens

<400> 1301
aaagttttta tctctgctga ggcttcacat ctgtttgctc aattttatatt ttatttcaat 60
ccttgagcat gtttataata tagtagtacc ccottattgt ggctttactt tcctcacttt 120
cagtcaccca cagtcaaaaa atatgaaata taaaactcca gaagtaaaca gtttataaat 180
tttaagtcac actttgttct gaggaatgtg atgcaacctc ccgccattct gctgtatcca 240
gttcaggatg tgacataccc ctttgctcag cagatacaca attcctgctt cctgctcatt 300
agacatttgc ag 312

<210> 1302
<211> 109
<212> DNA
<213> Homo sapiens

<400> 1302
attcttagat tatatgtgtc catctttgca gctttctgag agtaatttta ttgtttgtct 60
tctgaaatgt acatgtatac atgtacctac tgagtgtat gtgattttt 109

<210> 1303
<211> 330
<212> DNA
<213> Homo sapiens

<400> 1303
ccagagttac ttggatcagc atttaggaaa gtaaaatata gtggaagtaa aactgactca 60
tccaactaga cattctacag aaagaaaaat gcattattga cgaactggct acagtaccat 120
gcctctcagc cagcccggtg gtataatatg aagaccaa atgataactg tactgttttc 180
tgggccagtg agccagaaat tgattaaggc tttctttggt aggtaaatct agagtttata 240
cagtgtagat gtacatagta aagtattttt gattaacaat gtattttta ataatatcta 300
aagtcacat gaactggctt gtacattttt 330

<210> 1304
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 1304
 ccactgtagt ctgcatatcc ctgtccatat ccatagttcc catagttata cccagtataa 60
 tcatatccgc catagccact atagttttga tcaccaccat aggcaactatt gtaatttcca 120
 tatccttgat cataatagtt attaaatcct tggttccagt tttggccctg 170

<210> 1305
 <211> 468
 <212> DNA
 <213> Homo sapiens

<400> 1305
 aaaaataaat atttatactc cagcttttgt gtatttggtg tacatcacca cttatgcaaa 60
 tcaaggatca gaaaactgga ggtagccat ctocattatt tccttttgca cattgggtac 120
 agtgggtggc attagtagtc actagctgca aagtcacagc accttatgga aataagtagt 180
 tttattataa taaaaaaaaag ttaagctgca tctctgtaga ttatttactt tgcagactgt 240
 aaagctgccc tatcttttcc agcagaattt actcttccat tcttaattct tttttgaaat 300
 atcttaaata atttaacatt cctttataac ttcttaacag tgtcaaaact ggggtagaag 360
 ggatttttatt ttttcccaaa agggttccat ctttgctatc tgttgatcag ccttagaaaa 420
 tctaagtagt atcaataaat tttaatgggt gatggcatcc tgtgtcag 468

<210> 1306
 <211> 326
 <212> DNA
 <213> Homo sapiens

<400> 1306
 tggtaaagaa ctacctgtta atgcacaaaa ctatgtgcga tttattgaag atgagcttca 60
 aattccagtt aagtggattg gtgttggtaa atccagagaa tctatgattc aactctttta 120
 atgattgcca gtaatgcaag aaacactcct tgagagggag gggaaaagac tttcttaaat 180
 atttcattta tgacctgcaa attcaagaat aaagacactg aagtaagttt gaagccctac 240
 agytgtttcc agtcttttca gatggatgcc tactgtggag attaactttg gcatattcca 300
 gtgtcagctt tctttagctg gaattg 326

<210> 1307
 <211> 614
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 294, 442, 458, 465, 580, 592, 609
 <223> n = A,T,C or G

<400> 1307
 aaaaattatt actgtaagaa atagttttat aaaaaattat atttttattc agtaatttaa 60
 ttttgtaa at gccaaatgaa aaacgttttt tgctgctatg gtcttagcct gtagacatgc 120
 tgctagtatc agagggggcag tagagcttgg acagaaaagaa aagaaaacttg gtgttaggta 180
 attgactatg cactagtact tcagactttt taattttata tataatataca ttttttttcc 240
 ttctgcaata catttgaaaa cttgttttggg agactctgca ttttttattg cggntttttt 300

<210> 1315
 <211> 360
 <212> DNA
 <213> Homo sapiens

<400> 1315
 tctgtgcatc caatttatta tagwtttgta agtaacaata tgtaatcaaa cttctagggtg 60
 acttgagagt ggaacctcct atatcattat ttagcaccgt ttgtgacagt aaccatttca 120
 gtgtattggt tattatacca cttatatcaa cttatttttc accagkataa watcttratt 180
 tytacgacct atcattctga atcaagmaca ctgtatgttc agtaggttga actatgaaca 240
 ctgtcatcaa tgttcagttc aaaagcctga aagtttagat ctagaagctg gtaaaaatga 300
 caatatcaat cacattaggg gaaccattgt tgtcttcaact taatccattt agcactattt 360

<210> 1316
 <211> 277
 <212> DNA
 <213> Homo sapiens

<400> 1316
 aaaaaacacg tttgttatta ccaaawagag acggcttttag gtaaaaataa taaaaaccct 60
 ttgcttgyat tacytatgca ratagttsta tttatctggw cwacgggyta aaggyacagy 120
 actataggwc tctggcttga gtmittacgt tcatttctta ttgctggaat ktcataattc 180
 ttcttgttgg atgactaaac cggatgatgg tagagatggg aagccggcat ttactcagcc 240
 ccgcctgct cagcctcggg agcggacgaa ttctcag 277

<210> 1317
 <211> 716
 <212> DNA
 <213> Homo sapiens

<400> 1317
 aaaatgttct cttgagacta gtaggcatag aagaaagcag aaggaaaata aatagaaaga 60
 aggtcttcta ctttcatggc tattcaggct caggagggtg gagagaaaaa gaaggaggac 120
 aaatgaacaa gacagatgag ggagacatcc tctctgatat aagatacagt cctctctggg 180
 ggatggagtc caatttgtgt aacttcctat gtattttcct agataggacc accactattt 240
 gagaaaatat ctactggta acctaaagcc aaggataata aaccttgata tacttaacat 300
 tcaatttctt tccagcaatg tgataaataa atctatcttg tgtttctctt gcagattgta 360
 aaagcattag aacatttaca tagtaagctg tctgtcattc acagaggtaa gcatccatga 420
 gctgccttgg ctgttccttt gataaagttc atctctttca cctggagtcg gtctctaccc 480
 ccagtccccc atgggtggaa gtagaattga ctcaggcaag agaactaagg ggctttcctt 540
 tgagattgga tagcaaacca tataagtagt attccttatc atggctgagg acataagaag 600
 aagacgtgat ctttgtctta catccaaatt gaatataaac acttggtagc aagcagagct 660
 atgagatcat atcattgaga attttagaga atatgataaa aattgatctt gtctgg 716

<210> 1318
 <211> 515
 <212> DNA
 <213> Homo sapiens

<400> 1318
 aaagctgtat catgttgagt aaacctgacc tgagccagcg gtttaaggcg attttgctcg 60
 atgaagggtca agacgtgaac ccggtcattg ccgacttggg aaggatacag cgcactctgca 120
 aagtaaccgt cggcgaccct caccagcaga ttaccgttt ccgtgggtgcc gaagacgctc 180

<210> 1323
 <211> 359
 <212> DNA
 <213> Homo sapiens

<400> 1323
 ccacgctgct ggcttgggct ggctgtctct gctgtgagct ggctgaggag gacttccttg 60
 cggtctcccc cttagatccg cgctatcgtg aggtccacta tgcctgctg gatccttctt 120
 gcagtggctc gggtgagatg gtgagaaggc gtggctgagg gactcagagg tccacagcag 180
 cttagacctg gactcatctg ttttgggtct agttctgaca ctttaaatggg cttgggaccc 240
 tggagcaaaa gttctcctct gtgaagcgag gatttcagga gcgaggattt caggactgag 300
 gcagcctgtg aagctgtgta accgagacac gcttttcctt aggtatgccg agcagacag 359

<210> 1324
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 1324
 caatcacaca accacaaaaa agatactgtg tgcctctact ttccaaaatt ctgcctggctc 60
 tmctcctgag gaaagyagt atattggtagc tgggtgtgat cccctaaagg aattataaga 120
 tggartgyga rgaacattat cttagactat aakactgkct gcatrcrgat atgktstcra 180
 agattattcc tgctgcraat aaagakmttg skaaagagca rtatasagct atcacagtct 240
 attgacccam asatgttt 258

<210> 1325
 <211> 534
 <212> DNA
 <213> Homo sapiens

<400> 1325
 ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cacagcaagc 60
 tacaaatgtg aaaccagaa cccagttagt gccaggcgca gtgattcagt catcctgaat 120
 gtctctatg gcccgatgc cccaccatt tcccctctaa acacatctta cagatcaggg 180
 gaaaatctga acctctcctg ccacgcagcc tctaaccacac ctgcacagta ctcttggttt 240
 gtcaatggga ctttccagca atccacccaa gagctcttta tccccaacat cactgtgaat 300
 aatagtggat cctatacgtg ccaagcccat aactcagaca ctggcctcaa taggaccaca 360
 gtcacgacga tcacagtcta tgcagagcca cccaaaccct tcatcaccag caacaactcc 420
 aaccccggtg aggatgagga tgctgtagcc ttaacctgtg aacctgagat tcagaacaca 480
 acctacctgt ggtgggtaaa taatcagagc ctcccgggtc gtcccaggct gcag 534

<210> 1326
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 1326
 ctgcattatg tgtgttttaga acgagaagtt gtttgtacag tatttttcta ttgaccgctt 60
 cgtcttggc tgaaacctgg gcattctttc caatagacag aaaatcagag agtcaaactc 120
 gatgcgcaat gagttgttct gagaccagta atccacggtg ctgcaatttg gggtttt 177

<210> 1327
 <211> 266

<212> DNA
<213> Homo sapiens

<400> 1327
aaacttgttt tatctaatac tgagcactgt ttttttgtca agtatttttt taagaccaca 60
taattctttt tgtctgctca aggaaaggat agataaataa ttggcacaca tttgtttctc 120
actgaatttt acagtagtaa attaattgta taatgtacca catggagatg agttggtaag 180
aatcatcta gttccagagc ccagggatta taaacagtag gtgaaataga tttatgactt 240
acgaaatatg ttgtgacaat atattt 266

<210> 1328
<211> 409
<212> DNA
<213> Homo sapiens

<400> 1328
ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cgcaagagcc 60
tatgtatgtg gaatccagaa ctcaagtgtg gcaaaccgca gtgacccagt caccctggat 120
gtcctctatg ggccggacac ccccatcatt tcccccccag actcgtctta cctttcgga 180
gccaacctca acctctcctg ccaactcgcc tctaaccocat ccccgagta ttcttggcgt 240
atcaatggga taccgcagca acacacacaa gttctcttta tcgccaaaat cagcccaaat 300
aataacggga cctatgcctg ttttgtctct aacttggcta ctggccgcaa taatcccata 360
gtcaagagca tcacagtctc tgcactctga aottctcctg gtctctcag 409

<210> 1329
<211> 136
<212> DNA
<213> Homo sapiens

<400> 1329
ccattttcgc acagtccacc ataaaattga aaagattgac cagagacaga tcatggaggg 60
cttggaatc tgtactgatg aagccatgga ccagaagaga agtgagtcaa tgaagagagt 120
ttctcttttc acatgg 136

<210> 1330
<211> 311
<212> DNA
<213> Homo sapiens

<400> 1330
ctgctaacag ccctaacggt gcaacacaag tacaaactca ggaacctctt cgactgccac 60
gcccttcacc aacagaagga agacagtggc gccaccacaa gtggcagggc acaggggctt 120
ctgtgacaac aatatgtcct tctagtatac attcattgca aaggctgcc tgaagtctcg 180
tttttgaaa taactgttat catacatttt gtatgatgtt gcttgtgggc accatgaaga 240
gagcctggct gtaaaggaca gagggagcta aaccaacaat gcatggccct gcgtgccac 300
aagagggagc c 311

<210> 1331
<211> 613
<212> DNA
<213> Homo sapiens

<400> 1331
ctgggccakg agctgtgccc ggtgcctgca gccttcataa gcacacacgt ccattcccta 60

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ctaaggccca gacctcctgg tatctgcccc gggctccctc atcccacctc catccggagt 120
tgcccaagat gcatgtccaag cataggcagg attgctcggg ggtgagaagg ttaggtccgg 180
ctcagactga ataagaagag ataaaaatttg ccttaaaact tacctggcag tggctttgct 240
gcacggtctg aaaccacctg ttcccaccct cttgaccgaa atttccttgt gacacagaga 300
agggcaaagg tctgagccca gagttgacgg agggagtatt tcagggttca cttcaggggc 360
tcccaaagcg acaagatcgt tagggagaga gggccagggt ggggactggg aatttaagga 420
gagctgggaa cggatccctt aggttcagga agcttctgtg caagctgcga ggatggcttg 480
ggccgaaggg ttgctctgcc cgccgcgcta gctgtgagct gagcaaagcc ctgggctcac 540
agcaccctaa aagcctgtgg cttcagtoct gcgtctgcac cacacaatca aaaggatcgt 600
tttgttttgt ttt                                     613

```

```

<210> 1332
<211> 591
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 10
<223> n = A,T,C or G

```

```

<400> 1332
ctgagttaan atggtaaagc caatattatt ttaggaggaa agaggacgaa ggccaatgaa 60
ccaacatctg cctgctatct ggtgcatcac ccaagggtgac caatggctgg gcacaaataa 120
acttctcttt tgctagccac agagtgtgct actgtggcaa gcctgagctg gtcagaacac 180
ctgtgtgtgt gttcctgata cacactaacc acaataagca agtctgcaca catctctatg 240
agccccatgc aaagacaaga cattcccaaa gatcagtcac tagagtgcaa caacgaaatt 300
caagatttga ccaaaacaga ccctgctgcc tcctaaattg ccaattgcct ctcaaaaact 360
tacagaaaaa gggacattat aagaattcat agagggagag aagaaaaagc tgctactcct 420
agtcattagt acaatgtgct gtgttaatta gatacctota tataaattag aaaaagtgct 480
ttacttgcac gcttcaataa aatgaatact gagtgtogta gtgttagatc tgtacagata 540
taaatttttt gcagctatat aaaagtgtat aagatgggct tttgcatttt a 591

```

```

<210> 1333
<211> 379
<212> DNA
<213> Homo sapiens

```

```

<400> 1333
ctggtacaaa ggcgaaagag tggatggcaa cagtctaatt gtaggatatg taataggaac 60
tcaacaagct accccagggc ccgcatgcag tggtcgagag acaatatacc ccaatgcac 120
cctgctgac cagaacgtca ccagaaatga cacaggattc tataccctac aagtcataaa 180
gtcagatctt gtgaatgaag aagcaaccgg acagttccat gtataccgg agctgcccaa 240
gcctccatc tccagcaaca actccaaccc cgtggaggac aaggatgctg tggccttcac 300
ctgtgaacct gaggtcaga acacaaccta cctgtggtgg gtaaatggc agagcctccc 360
agtcagtccc aggctgcag                                     379

```

```

<210> 1334
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 1334
aaaccatttg taaaaaactt ctataaattt ttctctctct ttctctctta tgtacaaaaa 60

```


<210> 1338
 <211> 350
 <212> DNA
 <213> Homo sapiens

<400> 1338
 aaaggtgata ttacacaaaa cctcgtcttt tgttcaactt tggatccatt ggcaattcaa 60
 tggcctcaat ctcccaaac tgcgcaaagt actccctgat cttttcctca gtggcttcag 120
 gattcagacc cccaacgaag attttcttca cggggtcctt cttcatagcc atggcctttt 180
 tagggtcaat gacacggcca tccagcctgt gctccttctg gtctaggacc ttctccacac 240
 tggctgcac tttgaacagg ataaacccaa accctottga ccgtccagtg ttgggatcca 300
 tttttattgt acagtcaacg acctctccaa atttagtaaa atagtctttt 350

<210> 1339
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 1339
 ctgctcctct agtaataagt tcttggggat aatacattaa ccaacattgg ttgaaacata 60
 cctgagtaat catatcagga tgcattgttaa gctgataaaa caataagatc ccaaaatgca 120
 gtagctcaaa aaaagtagaa gttaatttat ctcttggggg acagctctgg ttctcaaatt 180
 ttacaggctc agaatcacct gcagggcttg tgaaagtaca gattgctgcg ctccgcccc 240
 agagtttctg atttagtagg tgtaggctg aaccaagaat ttgcctttct aacaagctcc 300
 caagtgatgc tgatgacttg taggaatgga tttacttcta ggattagact tcagctcact 360
 ctgtttgctg aactctttct aatatttctt aagttggtag actcyctgct ccaggttctc 420
 aacgtgaagg aaggaacccc cag 443

<210> 1340
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 1340
 cctcaggaac aggtaggggc agcagaatag aatagcatcc atttcccaga gaaagactgc 60
 ctttacatkt cccatgcttt tagcacaaag cagcgtcttg gccactgtta ccagaggtga 120
 gtttatacat ttacaaaatg cttaaaatct ttgggaagca agaggaagct aaacagaagg 180
 tcccatgtta actgaaggca aattcactca acctctctag taagggaccc atgggcctac 240
 agagtgttcc ctctacaatg tgcagagtgg aaa 273

<210> 1341
 <211> 561
 <212> DNA
 <213> Homo sapiens

<400> 1341
 ccatgggccc ggtcacgaac aaaacggggc tggacgcctc gcccctggcc gcagatacct 60
 cctactacca ggggtgttac tccgggccc tttatgaact ctcttaagaa gacgacggct 120
 tcaggcccg ctaactctgg caccgccgat cgaggacaag tgagagagca agtgggggtc 180
 gagactttgg ggagacgggtg ttgcagagac gcaagggaga agaaatccat aacaccccca 240
 cccaacacc gccaaagacag cagtcttctt caccgcgtgc agccgttccg tcccaaacag 300
 agggccacac agatacccca cgttctatat aaggaggaaa acgggaaaga atataaagtt 360
 aaaaaaaagc ctccgggttt cactactgtg tagactcctg cttcttcaag cacctgcaga 420
 ttctgatttt tttgttgttg ttgttctcct ccattgctgt tgttgcaggg aagtcttact 480

taaaaaaaaa aaaaaatttt gtgagtgact cgggtgtaaaa ccatgtagtt ttaacagAAC 540
cagagggttg tactattgtt t 561

<210> 1342
<211> 159
<212> DNA
<213> Homo sapiens

<400> 1342
aaagatggca aggcaataaa tgtgttcgta agtgccaacc gactaattca tcaaaccaac 60
ttaataacttc agaccttcaa aactgtggcc tgaaagttgt atatgttaag agatgtactt 120
ctcagtggca gtattgaact gcctttatct gttaaatttt 159

<210> 1343
<211> 76
<212> DNA
<213> Homo sapiens

<400> 1343
aaaatgtaaa gccaatctat caccaaaaaat ggcataaatg taaacacaag ctaattttat 60
aatccactgc tatattt 76

<210> 1344
<211> 726
<212> DNA
<213> Homo sapiens

<400> 1344
caaaagcagc ctgaatacgc aactcacgcc aagagggcag cagctctcct gacatccatg 60
taagaaggct aacacctaaa ccacacgcag gcatcctgaa ctcagcagct ctgatccaag 120
gtactgagtg gagacaaagc actcggaggt ggcaagatgt tcagcaacca agtaagacac 180
actggcaagg catcccaccc aaagggtgaga agcacaagc aggcttggag aaacaaacag 240
tcatgccagg tgcagccaga catcctgcta taagccctga cctagtacc ccgagttcat 300
caagtgtctt ggttttgtgt ccataaagca cagagggcac tgaccacccc aaaccagaat 360
ccaaggaat ccttatggat ggcatagggc ctcagaactg ctgcaggatc attttccttt 420
tcaggtcgtg gctgaacttg ttcacacctg agagctcact gtcataaaat gcagagaggt 480
tgtggatgtt gatctgacga gccttatcca ccaagtcctt mtcaggagac tcaatagtgt 540
cctgtctggc cccaaagcgg ttgcgctgat atgtcacstg ctctgccact aactgcttca 600
gtatgaagag caacagctca ttgttgtcac gccggaatga aaggtagcgg gcaaaagtct 660
tgcgcatgct gcgcatgacg ctgaacttct gtgtgtctat gaagstctcc akmatcayga 720
gratgg 726

<210> 1345
<211> 742
<212> DNA
<213> Homo sapiens

<400> 1345
ccagagagcc ctgtcctgtg aggggtggta tcacagtggc agggttcaat tcagaagacc 60
ttgagggcag gctgatgttt cctgaatggg cccctgggtg ttgcttgcc ctgactctcc 120
atttcccat ctgagtggat ttggacctaa tagggcactg gagctgggtc gaatcctgac 180
tggactactt ggcaacttta tgtctgggag caagtactt aacctcccca agcctgtgtc 240
tgtgaaatgc gggtaaata atgtagatgt ttggcagcag ctactccttg ttgagctctc 300
acagtgaact ctctgcctc tgccctcctt cccgcctcc cctggtgcct agcgtcagg 360

```

ctagccactt cctcctgggc ccctctccct tttctgtggc tggctgcctg cccgcctggc 420
gctggacctt tcatgtaacg ggaatcagca tgtatattct ggtctggtct gtttctacac 480
ttaattttgt ttccagtagt atttccctgt accggcagag ttcacaaaca catttgaaga 540
ggctttttct caggattctt aaccttccaa aggaagtccc atggatgggt ttctagaagt 600
ctataaatgc tctgaaattg tatttttctg tggaaaagca taacttttat ctgcttgggc 660
gtgctcaaaa aaagatcatg aatggaatga attgcattga attttatgcc attgggggct 720
taataactaaa aggatatgga ag 742

```

<210> 1346

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 498, 543

<223> n = A,T,C or G

<400> 1346

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aaatgcattk ttaacttaca gtattttcaa ottacgatgt gtttatcasg aagtaacccc 60
atcataagca gaggagcatc tgtattgcgt aatttgactg gcacagttaa ttaggttctg 120
ttcagtgwtt tccgtcaaca agatgtttat tgtgtgagta aacaaggtta gccctgtgac 180
aagctgaata agaatagtct ctccctcagca gcttatagta aacaagggtta gtaatcctta 240
cattagtggc tagactatca aacgaaatat ataacatgta agaacactaa agacagaatt 300
actgtggcat agagatagtt agaattgctt cagcctaaga gatgaattag gtaatgcaag 360
gaggtgaata tggtggcctg caatatgaac aaggcagaga gctgggagag taagatgtaa 420
gttgctaagg agggatgtgt cttgagtttg gaaaccataa agggaaatca taggtaatgc 480
tagagtcact gatcttangg agccttgaat aacggtgatg actaagggaa tctttatattt 540
ggnggggacta ttggaattaa attggccaga att 573

```

<210> 1347

<211> 333

<212> DNA

<213> Homo sapiens

<400> 1347

```

cctgggtttct ggtggcctct atgaatccca tgtagggtgc agaccgtact ccattccctcc 60
ctgtgagcac caggtcaacg gctcccggcc cccatgcacg ggggagggag atacccccaa 120
gtgtagcaag atctgtgagc ctggctacag cccgacctac aaacaggaca agcactacgg 180
atacaattcc tacagcgtct ccaatagcga gaaggacatc atggccgaga tctacaaaaa 240
cggccccgtg gagggagcct tctctgtgta ttcggacttc ctgctctaca agtcaggagt 300
gtaccaacac gtcaccggag agatgatggg tgg 333

```

<210> 1348

<211> 185

<212> DNA

<213> Homo sapiens

<400> 1348

```

aaaaaagctt gcagcaagaa aatgccagtg tgcaactggg tgactaaaga ccaaagaaaa 60
acagttaaaa gggacagctt acttgctctc tgtctcaggt ttaacttctc acctgaaatc 120
tctcatagcc ctaattaaac acaaaacaaa gtctcttcca tagataggct acttctcagc 180
ttcag 185

```

<210> 1349
 <211> 171
 <212> DNA
 <213> Homo sapiens

<400> 1349
 gcggcagcga ggggctcggg gaggtgctcg gattctcgtg gctgtgccgg gacttaacca 60
 ccaccatgtc gagcaaaaga acaaagacca agaccaagaa gcgccctcag cgtgcaacat 120
 ccaatgtggt tgctatgttt gaccagtcac agattcagga gttcaaagag g 171

<210> 1350
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 1350
 ttgtcatatc atatctatgt cacctgtgta ttctgagatt acacacatac ctgccaatat 60
 acctgggaaa ggttatttta tcacagttac acttgagttc ttggcaggca ggactgagga 120
 agagtaattt gaaagaagtt ttacatccta tttagaagaa atcactagta tttccttaaa 180
 taacagggtta caatagaaag atactgcctg gaagttatcc tttcactttg gttcattttt 240
 agtttttctt tatgatttac atagctgttt aattcatttg cttatagtac aatcctgcca 300
 taaagtatta aagcacaaga tacctattat tccttcaaca tctgcatttt tcaagtttta 360
 tactctacat ccacagtacg tcagcagttc ttgaatgttt 400

<210> 1351
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 1351
 ccaggaaagg gcagtcctga gggagaagac aggattcagg gcagtgtctc gaagctgtgt 60
 gctcacctgg ttggctcatc aaacctggca accctgtggc ctgtctgccg gagctgactg 120
 gatccactca tcaattcttc gtccccacta ctaagactgg gcatgttttg ctgggtgtgg 180
 ctctgcactt caggaatggt cacaacaggg ggtagccctc aaaagcactc ctttttctat 240
 acctottctc aaggccatgt aagttgcca tctctacctg gctgtggaca aaaggttatc 300
 tgctcttgg 309

<210> 1352
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 1352
 ccacttcacg tgtgtgggaa cgtggtcagg ccgggtgctg gtgtttgaca tcccagcaaa 60
 ggggtcccaac attgtactga gcgaggagct ggctgggcac cagatgccaa tcacagacat 120
 tgccaccgag cctgcccagg gacaggattg tgtggctgac atgggtgacgg cagatgactc 180
 aggettgctg tgtgtctggc ggtcagggcc agaattcaca ttattgacct gcattccagg 240
 atttgagatt ccgtgcccct ctgtgcag 268

<210> 1353
 <211> 620
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 545
 <223> n = A,T,C or G

<400> 1353
 cctgagtaat tattccatca tagacaaact tgtgaatata gtggatgacc ttgtggagtg 60
 cgtgaaagaa aactcatcta aggatctaaa aaaatcattc aagagcccag agcccaggct 120
 ctttactcct gaagaattct ttagaatttt taatagatcc attgatgcct tcaaggactt 180
 tgtagtggca tctgaaacta gtgatttgtt ggttttcttca acattaagtc ctgagaaaga 240
 ttccagagtc agtgtcacaa aaccattttat gttacccctt gttgcagcca gctcccttag 300
 gaatgacagc agtagcagta ataggaaggc caaaaatctc cctggagact ccagcctaca 360
 ctgggcagcc atggcattgc cagcattgtt ttctcttata attggctttg cttttggagc 420
 cttatactgg aagaagagac agccaagtct tacaagggca gttgaaaata taaaatttaa 480
 tgaagaggat aatgagataa gtatgttgca agagaaagag agagagtttc aagaagtgtg 540
 attgnggctt gtatcaacac tgttactttc gtacattggc tgggaacagt catgtttgct 600
 ttcataaatg aagcagcttt 620

<210> 1354
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 1354
 aaaggattat ttttatgcaa agtattctgt ttcagcaagt gcaaatttta ttctaagttt 60
 cagagctcta tatttaattt aggtcaaatg ctttccaaaa agtaatctaa taaatccatt 120
 ctagaaaaat atatctaaag tattgcttta gaatagtgtt tccactttct gctgcagtat 180
 tgctttgcca tcttctgctc tcagcaaagc tgatagtcta tgtcaattaa ataccctatg 240
 ttatgtaaat agttatttta tcctgtggtg catgtttggg caaatatata tatagcctga 300
 taaacaactt ctattaaatc aaatatgtac cacagtgtat gtgtcttttg caagcttcca 360
 acagggatgt atcctgtatc attcattaaa catagttt 398

<210> 1355
 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 1355
 ctggytcctc agtgggaact gagtcattac ctgctaaagg gtagaagagg agagagagag 60
 gccagagcct ggggatgggg cagaagggtgc agcaggaagg aagggttagag tgagaaaaat 120
 ttccaaataa ggggtgatgt gtgagtgtc agaggggtgac tgaggacatc tccagcattt 180
 ccattgagga gggaggaagg aggggccctt gggttctggg gcagatgccg gcaggggtctg 240
 gatgagatgc ccccaacctc aacctgtgtc ctctgaaaac acttcaccca gtcacactga 300
 ggagccccctc caggcccagg ggcccccca ggtaggcgta tctcagctcc tctctggaag 360
 gacccccaca g 371

<210> 1356
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 1356
 gcggcgcggg cggcggtaaa atgtcggttc caggacctta ccaggcggcc actgggcctt 60
 cctcagcacc atccgcacct ccactctatg aagagacagt ggctgttaac agttattacc 120

ccacacctcc agtccccatg cctggggccaa ctacggggct tgtgacgggg cctgatggga 180
 agggcatgaa tcctccttcg tattataccc agccagcgcc catccccaat aacaatccaa 240
 ttaccgtgca gacgggtctac gtgcagcacc ccatacacctt tttggaccgc cctatccaaa 300
 tgtgttgtcc ttcctgcaac aagatgatcg tgagtcag 338

<210> 1357

<211> 159

<212> DNA

<213> Homo sapiens

<400> 1357

ctgggctgct gcctctggag tacttccccg cagctcctca ttgctcacat agtaggcaat 60
 ggcgttgctc tcaaacacac agaatccatc atcacctca aatgctggga ccttgccggc 120
 aggaaatttg cggagaaatt caggggtgcg gttggtttg 159

<210> 1358

<211> 306

<212> DNA

<213> Homo sapiens

<400> 1358

cctgtcagag tggcactggt agaagttcca ggaaccctga actgtaaggg ttcttcatca 60
 gtgccaacag gatgacatga aatgatgtac tcagaagtgt cctggaatgg ggcccatgag 120
 atggttgtct gagagagagc ttcttgtcct gtctttttcc ttccaatcag gggctcgctc 180
 ttctgattat tcttcagggc aatgacataa attgtatatt cggttcccg ttccaggcca 240
 gtaatagtag cctctgtgac accagggcgg ggccgaggga ccacttctct gggaggagac 300
 ccaggc 306

<210> 1359

<211> 382

<212> DNA

<213> Homo sapiens

<400> 1359

agagggagtc cagcccccaa gccttgtgag gcaactgttar gcagataggg aaaagagggg 60
 tccttagatc actggttcaa ggagggatct ggtaggggca gcattttcttc tgggctggaa 120
 acagaatggg ggtttcaaga tggcagaacc attccattat tggagctata agcccctaga 180
 attgctccat ggccatcttc ggtttccctt ggatctcatc tgctcctgaa ctgcacctgt 240
 catggcaagt ccactctcgg ccccatcttc ccctgagcca atgtgagtca ggtgaacaaa 300
 attcattggg tccccaatca tggcccggtc aatccgtctt ctcttcttct ttcttctcca 360
 ccattccagac gttcagctac ag 382

<210> 1360

<211> 365

<212> DNA

<213> Homo sapiens

<400> 1360

aaaaaacctt tcaaaataaa acttagtaaa atctagaact gkttcttggc ctacttgaga 60
 ggaacttcca tattttcaca gccatctccg aaagcagcag ttgctgtaaa ttaactgaga 120
 cttggaaatg gtgcagactg tcttggtaga gctgttctta tagcacaatt ttatctggaa 180
 aataaacttg taaatgcgtg ctgtatatta atacatgtgt gcccatatct atttttatta 240
 tctcctgcca gtctttgctc aatgggagat gacagaccaa cttctcaacg tgatttcccc 300
 atttcattga atgacattta tatgccactt atgaaaaaaa tactgctgtg aaagaaatgt 360

acttt

365

<210> 1361

<211> 502

<212> DNA

<213> Homo sapiens

<400> 1361

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gaggtatgga aaaatatcaa caaggaaata ttagatttga actgctgctt cgtagcaca 60
cagcacattc tccaggatat accatatggt aggacacaaa acgggtctca ataaattttt 120
aaaagtcaaa atcttatcaa gtatcttctc agaccacaat ggaataaaac tggaaatcaa 180
taacaagagg aacttctgaa attgaacaga tacacggaaa tcaaactaca tgttcctgaa 240
tgaccactgt gtctatgaag aaattgattt taaaaattta aaaattcttt gaaacaaatg 300
aaaatagaaa cacagcatat aaaaatgtat agggtagaac aaaagaagtg ctatgaggga 360
cattttatttc aataaacacc cacatcaata aggtagaaag tttttaaaca aataacctaa 420
taaacgcata tcaagggaact agaaaagcaa gaacaaatca aacctaaaat tagaaggaaa 480
taaataagtaa agatcagagc ag

```

<210> 1362

<211> 545

<212> DNA

<213> Homo sapiens

<400> 1362

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ctgattggat gtctaggaat gactgaaaga aaccaaaca gcctgtccac tgctgctgtg 60
ggatggagga ggcgtaagca gaaacactaa cagtatactg acctcttagc agaaccgctt 120
ccattctgga gatcacggct gctaaatcca gcatccccac ttcattttac cccagcata 180
ttgttctgta gtcttttctt gaaacatctt gattgctttt cctcggcagc tttcaaaaaa 240
ccaaataata atagttatcc gtcttctact tcatggaaga ttgttttggt gccctgaccc 300
tctgaagtgc ccagttcctg ccacttgaaa cctcggcctg atctgatctc atgttggaat 360
ctgcctgtct ttcacacagg gctggctctg gtcotttaca tgccagtttt gcttgtgaat 420
tcttgctttt ttcctctcat cagccttaag tttaggcggt tggtgttctc cagtgatgta 480
gacagttccc ttcacaagtc acagttcttc ccataaatga ggcccgtga cctctgcggg 540
acttt

```

<210> 1363

<211> 286

<212> DNA

<213> Homo sapiens

<400> 1363

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gggagatgca ggatgtagac ctcgctgagg tgaagccttt ggtggagaaa ggggagacca 60
tcaccggcct cctgcaagag tttgatgtcc aggagcagga catcgagact ttacatggct 120
ctgttcacgt cacgctgtgt gggactccca agggaaaccg gcctgtcctc ctcacctacc 180
atgacatcgg catgaaccac aaaacctgct acaacccctt cttcaactac gaggacatgc 240
aggagatcac ccagcacttt gccgtctgcc acgtggacgc ccctgg

```

<210> 1364

<211> 503

<212> DNA

<213> Homo sapiens

<400> 1364

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ccatcaggat catgaaaaca aactttggtg aatgtgagca actgcgccag acaggacaca 60

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ggttacaggg cctgacgtca ctaacggtaa ctgacaatct tggaatggac cctactgctg 120
 atgtttcaaaa aggacacaga ggtgaactgg tcactttctaa ttaagaagag ccagtggggg 180
 gggggaagct gaaaaccaaa aatccacgta gacatacgtg gcagtgtgaa cgtctgtcct 240
 ccccttcctt ctctcactt cctctcctcc tctcactca ggctgggtatt ctctgggtgt 300
 gcggatgtca gcttgccctg cagaagggtt gccagttttt tagatgtctt tttgagaaac 360
 gagctgcccg gatgggcact gttcacgtgc aggtacaggt cctcctgggt ggggcccgtg 420
 tagccgcaat cctcgagac gtagagcttg tcccgcgcgt gcttataggc atactgctgc 480
 tgcaccccat ggattttctt cag 503

<210> 1365

<211> 245

<212> DNA

<213> Homo sapiens

<400> 1365

ctgggcccgt ccacgctcat ccagtgggcc taggttctga ctgaccagcg aacaaaaact 60
 gtgacagaga tctaggattt cattcaggca gtgaaacacc taccgggaa acagagttgg 120
 cattaggaaa ggaaggaagg tacatccatg aagttaaagt gttaggagaa cagtctgatt 180
 aatagctgat ctaattaata gctgacctcc caaatctgac aggatagaca ctgccacgtg 240
 caagg 245

<210> 1366

<211> 131

<212> DNA

<213> Homo sapiens

<400> 1366

aaaatcccca taaatctttt ctgtcctgag gtagttgcaa aataaatcat aacttgata 60
 tcaactagag ctgaggcttt gactttttac tcattaaaaac tagttgttac aggaactacc 120
 tttagatatt t 131

<210> 1367

<211> 430

<212> DNA

<213> Homo sapiens

<400> 1367

ctgtgcagtt atatgaccat aaaggaaatg aaccattaaa aatggatcta cagccatata 60
 ttctgccgtt actcagaggc ttaatgattt attttcccc tccagccctg cttttaccag 120
 gttaaatgac agaagacctt ctattgtacc tattgttcaa aaaatattac tgttctgtgg 180
 aacctgggag agtccaattg ataagagaaa ctgaatcata ctgatgaggt gaaggatagg 240
 tctgccggtg tggggcaggg cactctttct cagcagccaa gataacttat cacacacgaa 300
 gcagagagaa tgcacccgat gaaaatctct ctgaactgtg ttccttgaag gatctcttaa 360
 aaaaaaaaaa tctgaaacat catccattga acaaatgaaa ggcttatacc tttaccatga 420
 agaaacattt 430

<210> 1368

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1368

ctgggcccgt agcaccgggc atatttttga atggatgagg tctggcaccg tgagcagtc 60
 agcgaggact tgggtcttagt tgagcaattt ggctaggagg atagtatgca gcacggttct 120

gagtctgtgg gatagctgcc atgaagtaac ctgaaggagg tgctggctgg taggggttga 180
 ttacagggtt gggaacagct cgtacacttg ccattctctg catatactgg ttagtgagggt 240
 gagcctggcg ctcttctttg cgctgagcta aagctacata caatggcttt gtgg 294

<210> 1369

<211> 429

<212> DNA

<213> Homo sapiens

<400> 1369

ctgaaggcaa tgggggactg aggaaggagg cagcagaagt aggagaggag caagaatcca 60
 gaagggaaat gagaacgaca aaactgaagt gcacttcaac atcctgcagc caaaggggta 120
 aaaaggagaa agaagtgcag accagtcaca taaatgccac agtgacatgc acaaaaacgt 180
 gaggggcaca ctccaggac agagtctgac aacatgacaa gctacatggc atcaaactct 240
 ttcattgtgac aggcagcttt tcacatgtgc atcttaagac tggaaacttg tatagataaa 300
 ccttaagtag ttaataaaaag caaaagtcac cctctattca ctgtttgctg ccatgttcca 360
 ggcatagtac ttggcacttt ttattttatt tcacttgatc agctcagaaa gtcctccaaa 420
 tgagtattt 429

<210> 1370

<211> 540

<212> DNA

<213> Homo sapiens

<400> 1370

ccactcccag gatgctgggt ctgccttgct ggctgggacc caggagccgt cagtccacgc 60
 actcccgat gcactcaaca acctaaggac gcaggagggt tccggggatg gtccgagctc 120
 gtccgtagat tggaatcgcc ctgaagatgt agaccctcaa gggatttatg tcatatctgc 180
 tccttccatc tacgctcggg aggtagcgac gccccttttc ccccgcctac aactgggagc 240
 cgctgggcag aggcagcacc tgctttttcc ctacccttcc tcgattctgt ccgtgaaatg 300
 aattgggtag agtctctgga aggttttaag cccattttca gttctaactt actttcatcc 360
 tattttgcat ccctcttacc gttttgagct acctgccatc ttctctttga aaaacctatg 420
 ggcttgagga ggtcacgat cgcactccgc cagagctttt ccaactgatt tactcagcgg 480
 ggaggcaggg gaggcagagg ggcagcctct ctaatgcttc ctactcattt tgtttctagg 540

<210> 1371

<211> 142

<212> DNA

<213> Homo sapiens

<400> 1371

ttaaaatggt agcacaagag tctggcaagt tggtagtgca gagaaaaggg gttaattgag 60
 gcttggttgg agtcgggatt cccctttccc aaacatgcgt ctgccactt ggacagcagc 120
 catttgtagt cgtatacttt tt 142

<210> 1372

<211> 377

<212> DNA

<213> Homo sapiens

<400> 1372

ccaccatctg tgcaagtagc caaaaccact ccttttaaca cgaggagacc tgtgatgctg 60
 gcctgctatg tgtggggctt ctatccagca gaagtgaact tcacgtggag gaagaacggg 120

```

aagcttgtca tgcctcacag cagtgcgcac aagactgccc agcccaatgg agactggaca 180
taccagaccc tctcccattt agccttaacc cctctttacg gggacactta cactgtgtg 240
gtagagcaca ttggggctcc tgagcccatc cttcgggact ggacacctgg gctgtccccc 300
atgcagaccc tgaaggtttc tgtgtctgca gtgactctgg gcctgggcct catcatcttc 360
tctcttggtg tgatcag 377

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```

<210> 1373
<211> 504
<212> DNA
<213> Homo sapiens

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<400> 1373
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ggatgtggtt gaccagatgg cagaggacga caccatccat gagggctgcc cccaggtctt 120
cgtgcagact gaccttcaat ctcatctcaa tgctctcagc aagttgttcc accagctctt 180
tctcttctct catctgctcc attttcctcc ggattgtaaa ctgcgggtct atagattcca 240
aatttctctg aggtcttaga aacacagact cagaaatcaa atgaggatgt ctcagaaagg 300
agtcactttt ccagaggcag gctgcccctt aactcagccg agcagcagga accactgggg 360
ccaaagctat tttatcttcc ttaggtaaaa aaaaatcaat agaataattc ttccccgctt 420
acatgctccc accactgatg aacgcgatct tcagcaagaa gaactttgag tccctctccg 480
aagccttcag cgtggcctct gcag 504

```

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<210> 1374
<211> 201
<212> DNA
<213> Homo sapiens

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<400> 1374
cctccgtaag atgcttgaca attttgactg ttttggagac aaactgtcag atgagtccat 60
cttcagtgtt tttttgtcag ttgtgggcaa gctgcgacgt ggggccaagc ctgagggcaa 120
ggctataata gatgaatttg agcagaagct tcgggcctgt cataccagag gtttgatgg 180
aatcaaggag cttgagattg g 201

```

```

<210> 1375
<211> 295
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 12
<223> n = A,T,C or G

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```

<400> 1375
ctgtgaggct gnttccaagg aggaaaacaa ggaaaaaat cgatatgtaa acatcttgcc 60
ttatgaccac tctagagtcc acctgacacc ggttgaaggg gttccagatt ctgattacat 120
caatgcttca ttcatcaacg gctaccaaga aaagaacaaa ttcattgctg cacaaggacc 180
aaaagaagaa acggtgaatg atttctggcg gatgatctgg gaacaaaaca cagccaccat 240
cgtcatggtt accaacctga aggagagaaa ggagtgcgaag tgcgccagct actgg 295

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<210> 1376
<211> 318
<212> DNA
<213> Homo sapiens

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<400> 1376
ccagcgctac tgtactggcc cagggcagag ttcattgtatc tcgtcttgac cacgtctaca 60
ggggaggcga tgacagtggg gcagaagcct gcccacaaagg cagaagtga gttggcaagg 120
aggtcatctg tcatgagggt ggctttcagg agggcatcct tgatgaggtc ataggtcacc 180
agctcagcac agttgacaat ggcatcagc gcaacattgg gggagggtccc tttccagagg 240
ccccggaacc cttcctctcg ggcaatgggc ttgtaggcat tgacgggtgct ttggtatctc 300
cgaccacctc cagcccgg 318

<210> 1377
<211> 143
<212> DNA
<213> Homo sapiens

<400> 1377
gtggattccg ytccggggcac cgatctcgcc aagatcctga gtgacatgcg aagccaatat 60
gaggtcatgg ccgagcagaa ccggaaggat gctgaagcct gggtcaccag ccggactgaa 120
gaattgaacc gggagggtcg tgg 143

<210> 1378
<211> 98
<212> DNA
<213> Homo sapiens

<400> 1378
aaatattggg aatagggtcg caacagcaac tatagaagta caactcaata gatggcatta 60
aaacatattg tagtgtggat atatattttt tctttttt 98

<210> 1379
<211> 330
<212> DNA
<213> Homo sapiens

<400> 1379
aaagatgttc acgttacgct ggaccaaatt aagacggctt tctccctctt gctgacgtgc 60
cccagccgtg ataattgacca gcttgagggt tgcagttaca ttatagtctt tgccagagac 120
aatcttttgt gttctaagga aaaggctgcc atgttgagga tccatcatct ctcccttcaa 180
tttgtcttcg acgacatcaa caagagcaag ttcattctgcc aagtccttca ttaagatact 240
gatggcacag gccatgcca cagcaccaac cccaacaact gtaattcttat tctggggggg 300
ctgttcttcc tttagaagat tataaatcag 330

<210> 1380
<211> 269
<212> DNA
<213> Homo sapiens

<400> 1380
ccactcctgg aaaccactg atagatgagt tccccccatc cttctggcct ccgccacatg 60
atcaggaagc tggacttgct cttatccaac cactcgaggt tccttttctt cctcagttcc 120
tctaatacaa tctggatcga ctccacagga agctttcgt gtagcttgac gttgttgaag 180
agcgggctct cctgagcttc catcacgctc atgctggact gtttgtgcag gcggcagaag 240
gacaggacca gcgagacca ggcggccag 269

<210> 1381

<211> 232
 <212> DNA
 <213> Homo sapiens

<400> 1381
 aaaagagagg aaaggcagtg cagggctgga ggctcctggag ggtggcggcg ggtcgtccta 60
 actagcaggc tgaaagggtg tggaggggat gccttcactc agaggaagtt cacagccacc 120
 tgccttgga catgtacctg ttcattcttt cgtaattgta gtattcattt tgctatcttc 180
 ctgttgccat ttccaaacag tgtcagtatg tttttgttaa atacgaacat tt 232

<210> 1382
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 1382
 aaacgtgcta aagggaaagg aatctgacat tctgggtaaa tcttactcaa tctaaatcaa 60
 agcttggttt tcaggaggag gaagggtgcga gcgcaggcag aggtgctgaa tactcctctt 120
 ctgattcact tccatcatcc tctttctctt ggtcactgcc ctgagtgcta agccgggtcaa 180
 acccttttctg actgtagccc ttacggcttg caaagaaatt accaagggtt aagcctccac 240
 ttcccttttc tctaaatctt cccagtactc ttcctgaact cgtctcgagt ttgtgttcag 300
 aatctccaaa ggcccttgat tttttccacc gaataaatat ggcaatgg 348

<210> 1383
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10
 <223> n = A,T,C or G

<400> 1383
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 ctgaatttcc tccagggaaa gatccttctt ctttgaggag gaaaggggga attctggaac 120
 agattctttt gaccgagggc tgagaatcag ctcaaaagcc tggcccgagg cacgcttctc 180
 cagttctttc acctggatat cagaagaagc catggtgaat agaagacaag cgacaggcag 240
 tgtattctgc acaatcaact gggataagga aagtcctgct cagtccgagc cgc 293

<210> 1384
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 1384
 ctgaagcaac ttgggattaa ttgcttgatt agcttcacga agcacagaga taaggctcgt 60
 cacttgcttt atgttattag gtgtaaagaa agtgatgct gtgcctgttt tggtagtgcg 120
 agcagttctt ccaattcgat gaatataatc ctctgaggag ttagggtagt cataattgat 180
 gacaaatttc acatcttcca catctagccc tctggaggcc acatctgtag caatcagaat 240
 aggagctttt ccatgtttga attcatttag aaccagtcga cgctcttggt gactcttgct 300
 accatggata cccatggcag gccacccatc tctcctcatt tttctggtaa gctcatcaca 360
 tcttcttttg gtttccacaa aaacaatggg tttattctcc ttctcactca tgatctcttc 420
 cattagacga ataagttttt catccttttc tacgtcatga cacacatcca caatctgaag 480

aatgttgtgg tttgactca gttcaagtgc accaatgttt atatgaatat agtctttcag 540
gaaatcttca gcaagctgtc ttacttcttt tgg 573

<210> 1385
<211> 150
<212> DNA
<213> Homo sapiens

<400> 1385
ccaaggccgc tagggctcctt acccctcagg atcaactcccc agccctttcc tcaggaggta 60
ccgctctcca aggtgtgcta gcagtgggcc ctgcccact tcaggcagaa cagggaggcc 120
cagagattac agatcccctc ctgtaagtgg 150

<210> 1386
<211> 159
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 139
<223> n = A,T,C or G

<400> 1386
aaatgatgtt ttggttaaga gtggaccatg agaattagct gacagcatcc cctttctctc 60
tccctgcctt ggtgggaccc tccctgtgtg accttggta agtcctcgaa cttttgtccc 120
gtatttaaga tggagctgnt ttacctactt cataagaca 159

<210> 1387
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 20, 41
<223> n = A,T,C or G

<400> 1387
ggtgnaattc gcctttgaan ggccgccggg caggctcttt ntgtstgctg aaggcagatc 60
gcttgttcca caccagctac cactcccagg cagtgcataat ccgccctgtt tgcagaaatg 120
cacgctgtac tagcatctcc tgggagctga ggcagaccct gtcagttgta tttgatgcct 180
tcatcacggg gcagggaaag aaagactggt cccctcttcg gatgttctcc cgaaccctca 240
cggagccctg ccccttggtc tcagagagcc gagtctatgt ggacatcacc acctacaacc 300
aggacaacga gacattagag gtgcacccac ccccgaccac tacatatcag gacgtcatcc 360
taggcactcg gaagacctat gccatctatg acttgcttga caccgccatg atcaacaact 420
ctcgaaacct caacatccag ctcaagtggg agagaccccc agagaatgag gcccccccag 480
tgccctttct gcatgcccag cgttacgtga gtggctatgg gctgcagaag ggggagctga 540
gcacactgct gtacaacacc caccataacc gggccttccc ggtgctgctg ctggacaccg 600
taccctggta tctgcggtg tatgtgcaca cccctaccat cacctccaag ggcaaggaga 660
acaaaccaag ttacatccac taccagcctg cccaggaccg gctgcaaccc cacctcctgg 720
agatgctgat tcaga 735

<210> 1388

<211> 369
 <212> DNA
 <213> Homo sapiens

<400> 1388
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 ggggggtaccc agcacatccc actataccag atgagtggtt tctatggcaa gggteccctcc 120
 attaaagcagt tcatggacat cttctcgcta ccggagatgg ctctgctgtc ctgtgtggtg 180
 gactactttc tgggccacag cctggagttt gaccaagcac atctctacaa ggacgtgacg 240
 gacgccatcc gagacgtgca tgtgaagggc ctcatgtacc agtggatcga gcaggacatg 300
 gagaagtaca tcctgagagg ggatgagacg tttgctgtcc tgagccgcct ggtggcccat 360
 gggaaacag 369

<210> 1389
 <211> 322
 <212> DNA
 <213> Homo sapiens

<400> 1389
 aaagatgttt ctggcatttt ctttttattt gtaaggtggt ggtaactatg gttattggct 60
 agaaatcctg agttttcaac tgtatatatc tatagtttgt aaaaagaaca aaacaaccga 120
 gacaaaccct tgatgtcctt tgctcggcgt tgaggctgtg gggaagatgc cttttgggag 180
 aggctgtagc tcagggcgtg cactgtgagg ctggacctgt tgactctgca gggggcatcc 240
 atttagcttc aggttgtctt gtttctgtat atagtgcacat agcattctgc cgccatctta 300
 gctgtggaca aaggggggtc ag 322

<210> 1390
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 1390
 aaatattagw tgagacttta caggcacata actgttcaga tagaaacaaa cataacagac 60
 taaaatactt tcaaaattaa agccatctag aaaatggaag taactgaaac tgtagccatt 120
 acaattcttt ttctggtttt gagcaaaaat tttatctctc tggcaaaaaca cttttgtctg 180
 atcatttgag agacaggggt cttgtatact gtttcttcaa cgtaaacctc atttacaaaa 240
 atagtgcacat agcattatga ataaactatg aattggggac catggaaatg cactagaaca 300
 aattttgtaa aaatatggca gatatggaag ttaaaaatag aatggatgca aggactgtac 360
 taaaggtgtt tgggtgtagt acaatgttca ctttgcacaa ctatccctat agtctaggta 420
 gccattgggt ttctcctcag cagtgtcaga 450

<210> 1391
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 1391
 aaaaaatcat aaatgggggt tcataatcca aagttgaaac atttattott catagcttca 60
 gaatttaaca accaattgta gaccatgctt tccaaatcca gtcttctttg ctatttttca 120
 aaacttctga gatctagtat taaactgctc cattctaaat gtatagtttt agataagtat 180
 tgtacacttg ttgataaggg ttttctgaaa gcagtctatc aaatataaag aatggttttc 240
 atctaagaat cagcagtgag ggaagaaata ttaaaccact atcaagaaat caattattca 300
 tttt 304

<210> 1392
 <211> 140
 <212> DNA
 <213> Homo sapiens

<400> 1392
 ctggaagaag aactgagaca gcagaaagaa gcagcttggt tcaaggctcg tccaaacacc 60
 gtcattctctc aggagccctt tgttcccaag aaagagaaga aatcagttgc tgagggcctt 120
 tctggttctc tagttcagga 140

<210> 1393
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 1393
 aaaactttgt ttttcttaaa agcttacagt gtttggtctaa ttctcctccc ctttttataa 60
 gacggggggcc ggagggtgga cactggtggc aggttaaggg atactgtcac ttttaagaagc 120
 ctgcagattg aagtgtaaac atggagaaat taggggctga tttttt 166

<210> 1394
 <211> 543
 <212> DNA
 <213> Homo sapiens

<400> 1394
 gcagaggctg tgggtacaaca tggtccttgg tgaagacctg caccocctgga acctcccacc 60
 atcatcacaa ctgtagtctc atttgtagtg gaaaaagaa cccgacgtcc cacagccaga 120
 tatacaccga gctccatgcc agcccttcat gtttaccttt tgctttgtta attacatgtc 180
 agactcctag agggcctcca gactaatagg aagcattttct gtaaccaacc tgccaccacc 240
 tgattcagaa atggaaatca cattccacaa tctatggctt ctaccageta gccagggaaa 300
 tacttgaaat cagcattcca attagtgttg agtctcttga ttgtgtcatt taccaattaa 360
 ataactgaga cctaagtctg ggaacagagc cacgaatctg cctttgagat gctggcagat 420
 ctcaaggcca tcaattattg ggggagggag ggacaaacac tccaatcat ccaccagtca 480
 gactgaatgt gtagctggcg aggaattact tccacttctg gccacgcaca agccctgctt 540
 tgg 543

<210> 1395
 <211> 364
 <212> DNA
 <213> Homo sapiens

<400> 1395
 cctatcatca gtgggggttg attcaccatc atccagggtg ccatcttcat acaagggtact 60
 agctatgacc aaccgaaact tgtcacccaa gtctacaggg taaatttgaa tgtttacatc 120
 taagattaga tccatcttga aagattcact ctcaaatgc agtcgagaca ctcggtcaaa 180
 cttcttgccc tccgggtcaa tctccttcac atcgaaaata tcctcaaaca ggatgcccg 240
 catcgcgagg gggccacgag agcagcagaa ggggtgagag cgcgaccaca gttgggagta 300
 cgtgcacccc ctagcgtgga caagaccgga gagaaccaa agcacctcct gaaagcgcg 360
 cggc 364

<210> 1396
 <211> 422
 <212> DNA

<213> Homo sapiens

<400> 1396

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gctgctgctg ctatttgttg gatgccgcgc gtgtcttctc ttctttccag agatggctaa 60
caggggcccc agctatggct taagccgaga ggtgcaggag aagatcgagc agaagtatga 120
tgccgacctg gagaacaagc tgggtggactg gatcatcctg cagtgcgccg aggacataga 180
gcacccgccc cccggcaggg cccattttca gaaatgggta atggacggga cggtcctgtg 240
caagctgata aatagtttat acccaccagg acaagagccc ataccaaga tctcagagtc 300
aaagatggct ttttaagcaga tggagcaaat ctcccagttc ctaaaagctg cggagaccta 360
tgggtgtcaga accaccgaca tctttcagac ggtggatcta tgggaaggga aggacatggc 420
ag 422
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<210> 1397

<211> 653

<212> DNA

<213> Homo sapiens

<400> 1397

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ctgacctgct atcccacccc aaatttcagc ctgaggtata tttcagtgaa ggcaggtagc 60
tgtgcttctc agagcagaga agcagtttta agagcaaaaa ggtagaggaa atctagaaaa 120
gaaccgtctt gatacagatt tatcccatgg tgtgaaggga gggcaaagaa cccagtggca 180
cttcgcttat ccagcaattt ctgtcactgt ggtgaccaac ttctgcccgt tccatagggt 240
cttgaactgc tcaggaactg ggaattcatt aaagtcaccg ccttctgtag gaatgaggac 300
attcatctcg gaagatttgg cactgactat ttcacaatcc agggaattct tgctcaggta 360
agcatggcag ccactctgtt tgttgatgga tatggttggc actttacca ttacctgaac 420
tttgacatcc ttactgttga ttatctccac aatgcccacc acgtcatcga ataccaggcc 480
aagtttctta cagttatcta ctgtaatgga gttaattttg ccttgattt gcaatgtcgt 540
gttgacacac ttgtatatgt aagccacctg tttcagctct gtgtcctcaa tcaccagggt 600
ggaaacattt tctgattttt ccctctccct tcttgccttc agttcaagta cag 653
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<210> 1398

<211> 261

<212> DNA

<213> Homo sapiens

<400> 1398

```
aaaattataa ctactcattc tttcttttagc cttagataat ttgagcagaa gccacaacaa 60
gcaaacacaa ataaatttag aattggcaga aatccacatt aactcctctt cccaagtttc 120
cacactacta ccattttacag ttgtagggtt gtaatgtata attatgtaat gcaaaaacta 180
gctttgactt gtgtracgat gcactgtcaa aggaagcaaa gtaagaattg aaattccaca 240
ttcccagaat ttaacactca g 261
```

<210> 1399

<211> 195

<212> DNA

<213> Homo sapiens

<400> 1399

```
ctgattttat ttctttctca aaaaaagtta tttacagaag gtatatatca acaatctgac 60
aggcagttaa cttgacatga ttagctggca tgattttttc ttttttttcc cccaaacatt 120
gtttttgtgg ccttgaattt taagacaaat attctacacg gcatattgca caggatggat 180
ggcaaaaaaa agttt 195
```

<210> 1400

<211> 120
 <212> DNA
 <213> Homo sapiens

<400> 1400
 ctgcctccaa ccctttgggt ctccaccacc caagtttctt gtaggggtccg ccgggtccag 60
 gatcacaggc ctgggtttcg tgagctgcct tctcaggtac ttttcaataa tgggggtttt 120

<210> 1401
 <211> 284
 <212> DNA
 <213> Homo sapiens

<400> 1401
 ctgtagccaa aaagatgctg gggcagattg tggacaagta gaagcacctc cttcccctct 60
 ggcacattga acggcgtgga ttcaatagtg agcttggcag tgggtgggagg gttccagaag 120
 gttagaagtg aggctgtgag caggagcctc tgccaggagg catgcaatct gcaggaggagg 180
 gctgaggggg gtcccatggg ctctgctgtc ttctctgtcc acctctttgt agaggagctt 240
 gagctccagg aatgctctgg tcagggtctg tgtgactgtt ggcc 284

<210> 1402
 <211> 198
 <212> DNA
 <213> Homo sapiens

<400> 1402
 ccaggtttct gctggtacca ggctaagtag ctggtgctgg cggaacact gtgactggcc 60
 ctgcaggaga ggggtggctct ttcccccgga gacagagaca gcgtgtctgg agactgtgtc 120
 acttcaagct ctgcgatgcc atctgggagc cagagtagca ggaggaagag aagctgcgct 180
 ggggtttcca tggttccc 198

<210> 1403
 <211> 441
 <212> DNA
 <213> Homo sapiens

<400> 1403
 aaactcaaaa ttgacaaatt aactagcttg ctttttgtca tttggaagac taccattatt 60
 caaattttatt atgtaataca ctcatccaga taatgaaaca tctgcaaaaa aaagtgtggg 120
 aatcacctca tctgtgcata aaatggctat tatacatgaa tgcagacgtt tgaagttaga 180
 aaggaatata actcaaatag caaaagggtc taattacaga gtttacaat aagcagtttt 240
 atttttcaaaa gtacatagta agtccagact gggctattgc caaagaacta atcttttagt 300
 tactttcaaca tgttacatgg tatttctgac tctacagact atcagcatct gtggagggtt 360
 gtcctaaag gtcccaaaga acaggaaaca tgcaggaata aaggactcct catgaagagc 420
 aggtgggagc gagtgggcag g 441

<210> 1404
 <211> 243
 <212> DNA
 <213> Homo sapiens

<400> 1404
 tgaaggggtt cttggaagac ctggcacctc cagagcgcag cagcctaatt caggattggg 60

```

aaacatctgg gcttggtttac ctggactata ttagagtcac tgaaatgctc cgccatatac 120
agcaggtgga ttgctcaggt aatgacctgg agcagttaca catcaaagtg acttcactgt 180
gcagtcggat agagcagatt cagtgttaca gtgctaaaga tcgcctggct cagtcagaca 240
tgg                                                    243

```

```

<210> 1405
<211> 168
<212> DNA
<213> Homo sapiens

```

```

<400> 1405
aaaccactgg atctatctaa atgccgattt gagttcgcga cactatgtac tgcgtttttc 60
attccttgat ttgactatct aatcctttct acttgtcgct aaatataatt gttttagtct 120
tatggcatga tgatagcata tgtgttcagg tttatagctg ttgtgttt 168

```

```

<210> 1406
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<400> 1406
ctggacatac agaaattggt gaatttttgt tgcaacttgg agtgccagtg aatgataaag 60
acgatgcagg ttggtctcct cttcatattg cggtctctgc tggccgggat gagattgtaa 120
aagcccttct gggaaaaggt gctcaagtga atgctgtcaa tcaaaatggc tgtactccct 180
tacattatgc agcttcgaaa aacaggcatg agatcgctgt catgttactg gaaggcgggg 240
ctaattccaga tgctaaggac cattatgagg ctacagcaat gcaccgggca gcagccaagg 300
gtaacttgaa gatgattcat atccttctgt actacaaagc atccacaaac atccaagaca 360
ctgagggtaa cactcctcta cacttagcct gtgatgagga gagagtggaa gaagcaaaac 420
tgctggtgtc ccaaggagca agtatttaca ttgagaataa agaagaaaag acaccctgc 480
aagtgg                                                    486

```

```

<210> 1407
<211> 560
<212> DNA
<213> Homo sapiens

```

```

<400> 1407
aaatatatgc ttttctagaa tttgatgttt gaccatttat gacttaatta ccagagagcc 60
agtaaattag gacagtgttt caacaagcct aggctatctc gtaagttgaa aaatatccca 120
ctatagttgc ttcattgagta tgaagtaaga tggcctctga tttacactgg ttcaatttac 180
aaattttcaa ctttatgata ggtttatcag ggtactaaat gcattttcaac ttgatagtgt 240
caacttatga taggtttacc aggatgtagt cccactgttg aggagcatct atttaggagt 300
taattacttt agtaataagt ggaaagtaag ataccttgag taatgtttgc ctataaaatt 360
gtcagcgtat ttttacacta ttggctcaag aatgttataa tgctaaggga cataagttgg 420
caaccacttg gtttttgga ggaactttcg tattgtatta gaagtctgcc ctagctgtta 480
aattttctggg tatttatcct aaggaattaa ttaaagagtt aattgttcct ttcttcagtg 540
ggccattggt ttagatatatt 560

```

```

<210> 1408
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<400> 1408

```

```

ctgcctagtt gtagttgaca gacaacttta taagctctag tcaaccctat tgactaagct 60
tctgaaccac tagcatagtt ctagggtcag gcggatgcct actgtgggca ggaaagtgat 120
gcatgcatgt gtgggagcag tgtcttaatg tctgaaatag tagccatgag ctacatgtgg 180
ctatggagca cttgaaatgt gggagtcocaa attatcatgt gctgtgagtg taaaataata 240
tgtttctaag accgtgtgtg aaagaatata aaatatctca ttaaaaaatg tttatattga 300
gtacatgttg aaataatttt atatttgtga cacattgtgt taaataaaat attaaaaatt 360

```

<210> 1409

<211> 208

<212> DNA

<213> Homo sapiens

<400> 1409

```

ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagccag 60
cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct gcaggcgcat 120
aggtgccaaa tcccaggaca ggcattgaagt gaccatcatt cagcttcaca cactgatatt 180
tcgaatccat ttctgtcact agcctggc 208

```

<210> 1410

<211> 404

<212> DNA

<213> Homo sapiens

<400> 1410

```

aaaaaaagga aaaagtttta ttacgaaact agtttgtata aaacaggggt atacatatatt 60
ttgtaagttt gtaataaaaac agtaagaaaa aaaaggcagt aatagaaatc tccaaaaggc 120
aacctatcaa aaccaactgg ctgccacttt gagtttgac agtagctgca taaactttgt 180
tcttcttgag cagtatttaa taacatcatt aatacattaa caacatttct ataaagtaag 240
acacattggg gctgaagtac aactgggtgg ctcttgatct cacctatgag gagagttctt 300
tacamawcca catagggaaa attgcagttg taaggtgarc tacacatcta aaatatgcag 360
aggtaatagc attacatgtt aaagtatcaa gatatacaca tttt 404

```

<210> 1411

<211> 623

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 428, 469

<223> n = A,T,C or G

<400> 1411

```

ccacttggtg agatatgggg agcctacact cggagggst gtaccttag cactggccct 60
catctctgtt tcaaataccac gactcaacat cctggatacc ctaagcaaat tctctcatga 120
tgctgatcca gaagtttctt ataactccat ttttgccatg ggcattgttg gcagtggtag 180
caataatgcc cgtctggctg caatgctgag ccagttagct caatatcatg ccaaggaccc 240
aaacaacctc ttcattgggtgc gcttggcaca gggcctgaca catttaggga agggcaccct 300
taccctctgc ccctaccaca ggcacgggca gcttatgagc caggtggccg tggctggact 360
gctcactgtg cttgtctctt tcttgatgtg tcgaaacatt attctaggca aatcacacta 420
tgtattgnat gggctgggtg ctgccatgca gccccgaatg ctggttacng tttgatgagg 480
agctgcgggc attgccagtg tctgtccgtg tggggccaggc agtggtatgt gtggggccagg 540
ctggcaagcc cgaaaactat cacagggttc cagacgcata caacccagc gttggtgggc 600

```

ccacgggggaa cgggcagaat tgg

623

<210> 1412

<211> 171

<212> DNA

<213> Homo sapiens

<400> 1412

gcggcgctgg ggggtgctgga gtccgacctg ccaagtgccg tgacacttct gaaaaatctc 60
caggagcaag tgatggctgt aactgcacaa gtgaaatcac tgacacaaaa agttcaagct 120
gggtgcctatc ctacagaaaa gggctctcagc ttcttggaag tgaaagacca g 171

<210> 1413

<211> 189

<212> DNA

<213> Homo sapiens

<400> 1413

aaaagtcata aggggttttat tttgtatcat caaaatattc tataagggtcc caaataactct 60
ttttcaaccc atgaacagta agaatttggtg aattctgata atgaaaaaag ttttcctcca 120
gggatgtttg tttcacattc agtcctaaag ccttgagcta tgtgtacttc cctcacacag 180
gaacaccag 189

<210> 1414

<211> 564

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 511

<223> n = A,T,C or G

<400> 1414

cctccccagc gcccacaaaggt ctattacaag tacctataga cttttcacat ataagttcta 60
gtgggtacaa gctttttttt tttttttttt tttttttttt tctattgggk atttcattca 120
ttttggggggg ggaacaaatt ctacaaactg ctttaatat gkcccttttt tctaataattc 180
acattaactt tttatgtaaa acataccaat gcttttaata aagcttacat aggaataaac 240
tattatagac ctgcatagat ataagtaccc atgtattaat ctacattaaa ataatggatt 300
ttattctgcg aaractccaa gttgctcctg gkggctaagk gaagcactta gggaaatgtg 360
ttcagtcttt gaggtcatag gaacattara ttatatcaaa ggaaacctgg agccatcagc 420
taagtggccc ttctgtcctg tagatacata aaaactaatg ggctccgcta tgcggtcac 480
tttctgctat tagatactat gaggcactaa naaaaaacta ctgcctgcat catatctttc 540
ttcggtttga gataaagaga atgg 564

<210> 1415

<211> 231

<212> DNA

<213> Homo sapiens

<400> 1415

ctgcgcttgg ataacaagta attcaacgca cgcacttaac agaaatgtta aactataaca 60
agcaccattt gaggattaac aggaacattt ttttgaagat ttcaaacgaa ctgcactttc 120
agtataattg tacctaaagt atttataaac agctcatcgg agcctctatt tgatcatagac 180

ttttgagttg attgttgga ccacataata ggaccatttt tttttgtctt t 231

<210> 1416

<211> 540

<212> DNA

<213> Homo sapiens

<400> 1416

```

cttgatttag gatctgtggt gcagggcaat gtttcaaagt ttagtcacag cttaaaaaca 60
ttcagtgatga ctttaatat ataaaatgat ttcccatgcc ataattyttc tgtctattaa 120
atgggacaag tgtaaagcat gcaaaagtta gagatctgtt atataacatt tgttttgtga 180
tttgaactcc taggaaaaat atgatttcat aaatgtaaaa tgcacagaaa tgcattgcaat 240
acttataaga cttaaaaaatt gtgtttacag atgggtttatt tgtgcatatt tttactactg 300
cttttcctaa atgcatactg tatataattc tgtgtatttg ataaatattt cttcctacat 360
tatattttta gaatttttca gaaatataca tttatgtctt tatattgtaa taaatatgta 420
catatctagg tatatgcttt ctctctgctg tgaaattatt tttagaatta taaattcaca 480
tgtcttgtca gatttcatct gtataccttc aaattctctg aaagtaaaaa taaaagtttt 540

```

<210> 1417

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3

<223> n = A,T,C or G

<400> 1417

```

ttnatcatct aactgtgga tctatttcat ttctggaaat aacacaactt agttctaggg 60
ctttcatgca catgaaatat aaaacagctt agttgttctg aaaacatgac aatggttaat 120
tttattcaag tcccaacact gagttcagag cacttctcca taggccccat taatctctcc 180
aggtttctgg gagtatcatt aaatccctcg gcattcctaa gaagcagggtg cttagcaaac 240
atccagtttc caaatgagag tcagaggggc ttgatcctga aagtgtagta ttttctgccc 300
ttgtcctact ggtatagctt cttggaccta aaatctctct cctgctgagg 350

```

<210> 1418

<211> 425

<212> DNA

<213> Homo sapiens

<400> 1418

```

tgctaggcag ccttattttc ataaccawt tagggaaagg aaatttagga ttttcaaggc 60
tacattaatt tttcctccat caaatcttga tttgttcttg ataaaaatga gttcttttgg 120
ggaaattctt tcttttagaca ccaacttggg ttttctcatc ttccacagaa taattgaacc 180
cctgacctct agatgttcaa aattccgctt caagcctctg tcagataaaa ttcaacagca 240
gcgattacta gacattgcca agaaggaaaa tgtcaaaatt agtgatgagg gaatagctta 300
tcttgtaaaa gtgtcagaag gagacttaag aaaagccatt acatttcttc aaagcgctac 360
tcgattaaca ggtggaaaagg agatcacaga gaaagtgatt acagacattg ccgggggtaat 420
accag 425

```

<210> 1419

<211> 390

<212> DNA

<213> Homo sapiens

<400> 1419

```

aaactcttgc tattgaattg agatgattaa aatggtgact taatccgtag ttattttgca 60
ccactgaaa ggaaagtgct ttccagaata atatgaagta tctaaaagtg tcaccttttc 120
ttgcctgata aacaatttgg gcttcctgtt tgtacaaggg gccatttggc atacctttca 180
cagcttttat caggccaagt taaaggctga ctacattttt tcatcatgag gaaagcagtt 240
gaaatgaggc atgagttact gtgcattggg attttagaac aattttcttg tgacagctct 300
ttttgtgaag ttaggttctt aaaagtgcc atgatgggtca cttaaatgt gcagtaatat 360
cactgccagg atcaagcatg aaaggctttt

```

<210> 1420

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 322

<223> n = A,T,C or G

<400> 1420

```

ttgctgaaca atgacatcgt tttctccagg ggttgaaatc catgtccatg gctgacaacc 60
caacaaggct gggacccaaa ttctgtacaga gatgaggcag agtggagaga aacaactctg 120
gctgagccag agtctccagc cactacttct tttcctggg cttagctctc tcggctgcat 180
tacgcaggaa aatgtaattt tttttctggg gattataaaa ttcattgtcc tttgaccagt 240
cgtagctgga agcgtatgca aatatgtttc cattgygatt gaaacagcaa gctgasatgg 300
gctgayctaa ctgttcogaa gnttttagtt ttgktctggc atctttgycc cagaagctga 360
atctaccatc agatccacaa gttgcaaggg tgccatgaac aggatggaac gccgattcca 420
tttaccgcga taaatgycct gaggagctga agtggttggt ccattagatc gatgacattt 480

```

<210> 1421

<211> 453

<212> DNA

<213> Homo sapiens

<400> 1421

```

aaactgattg aggtcacagt attttattat ttggggctct caccacagga aacactgoga 60
tacaggggca aaagagatgg cagtgccaat taaattaata caacaaaatc aatgcagcac 120
caaccaagac tgccaggctc ggtgtcatgg gtatgccag agcccaggag ttcagaaggg 180
ccctaagcct gatttaatgc tctgctgttg atgtcttgaa attcttaaca atttttgaac 240
aaggggcctg cgttttctact tcgcaactgg ccttgcaaat tacatagcga gtgctcataa 300
aagaactcag aaacgtggta cctctcttcc tgggtggatac aaataaagaa atctggatcc 360
aaagttgaaa gttgctggcg atatcattca agtaggactc taaatagtgg attaatgatg 420
gggtgggcct ggtgaagat tctttccagc ttt

```

<210> 1422

<211> 542

<212> DNA

<213> Homo sapiens

<220>


```

aatgagagg gtataacaaa aaagagaaca ggaggaaagc ttcgctgtgc ctgaggaaat 120
aatctagtca aggcagcaag tctggatagt gctatagaga tgagatacct gagcagttcc 180
agaggaagag gtggagatca gaggccagtt ttcagtgaac actgtaaaga aaagccagat 240
gatgtgtcct gga                                     253

```

```

<210> 1430
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<400> 1430
aaattttact agtggttactt aatgtatatt ctaaaaagag aatgcagtaa ctaatgccct 60
aaatgtttga tctctgtttg tcattacttt ttcaaaatta tttttttctg taaagtataa 120
tatataaaac ttcttgctta aattgaattt ctatattagt ggtaattgc agttttattaa 180
agggatcatt atcagtaatt tcatagcaac tgttctagtg ttttgtgttt tt          232

```

```

<210> 1431
<211> 734
<212> DNA
<213> Homo sapiens

```

```

<400> 1431
cattatacaa cactatattg ccagggtcaaa gagggcaggg acgtaaatgt aactaaaaat 60
gcmaatgtat cccaaagaga taaaacaaat tccatttaca gcatgaaggt ttacaaatgt 120
acacctgtac aaccaaggaa agcatcacta cttaaattagc aaggctttta taataaacat 180
tgaaaaaaga tttcctttca aagtgtaaac ttacatctat tactacacac acaatgcata 240
tattttataga aagcaaaaaag agctatctga atatgtaatc atgcttaaat gctgagctat 300
caaattcact tttcagtggc cccttttcat ctctatctgg ttcctacttt ctgcctctat 360
gaaaaagcaa aataaagctc aacacttcct caacatgtct gtaattctat aagcaaaaaca 420
aaatacaaat ttccactctt tctcattgca aaccaaaactg aaaagttaat aagtgactta 480
acttttcatt tagtgcactt aattggaagt gtcaccatga ttttgtattt aactcttaca 540
acaattacat atgtaagtat atacaatatt tctgtacatt gccagagaca ttttagggca 600
gtaattgtat taaaaccaca totactgtaa ataatgttag gttcttttca totcaaacca 660
ctttattctt gcctacttac tcgttatttg catgatagtt tgtgaattat caaaatacaa 720
cttaactctt taaa                                     734

```

```

<210> 1432
<211> 542
<212> DNA
<213> Homo sapiens

```

```

<400> 1432
tttaagaaag agccttttgag aaacatgcat acttttctct tttctcctat attcaatact 60
catatagcct aaaagatgga aactggttca agaattttaa tgacttgttc cctaaaaagt 120
taatctcttc acctttgtga aatatatcaa gtgcttttcta taaataaggg caggaaatgc 180
taacttcata agcatagtcc tagtcattaa aataatttga tcactcttcta aaatttaagt 240
atgatagtaa cacagtaata tggaaaatct caatatactt aacacttcct aaacagcaca 300
atgaaatggt gttcaaggtc tgaattaatt tgctacagga cctaagcaag tctgtttgct 360
tatcttttgg ctttaaaatt ctttaagtct aaaatgggtga taattttaga ataaactgac 420
aatgtgggga acaaacttaa attcacaaac actaccata tgctcaaaaa ctctctggga 480
taattagttt cttcattgta actattgatg tactattatt tcacttttcc attagctcta 540
ct                                     542

```

```

<210> 1433

```


<400> 1437
 ttttgccacc tcaagaagcc attttcttgt ctgtttcctt ctttacctac ccctacaacc 60
 tatgaacaaa taccataact taaaaattta ggtagtctac aactcctaca aattttaagt 120
 tcagagacta cccaaagaac tgtggaagat gcagcaatat aaaagttttt t 171

<210> 1438
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 1438
 tctgagtgga ggtaggctaa caacacattt tgactttstc ctcaaaggat agctttgaaa 60
 aacaagtgtg accaattgtt acaccaaatt aaaatggcaa tattaatcg gtaacaaaac 120
 gatccacatt ttatacaata ttgtatttcc aaacatacat aggtcatgaa aatcagagaa 180
 cctaatatag caccgttgaa accattcatt atccttcatg tgtgtatgca attcagaatt 240
 tcggcagaag acaacaaatg gaaaatgcct ttcgtttcta taaatcattt tggatttcaa 300
 ttaaattctt gccttagtaa aggggtattct tatctcaaga tcaattagcc gtttttagct 360
 ccaccgtttt ggaagtaaaa atgatgagct acatctactt ttttaattt 408

<210> 1439
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 1439
 ttacacaaca gctataaacc tgaacacata tgctatcatc atgccataag actaaaacaa 60
 ttatatattag cgacaagtag aaaggattaa atagtcaa atacaagaatga aaaacgcagt 120
 acatagtgtc gcgaactcaa atcggcattt agatagatcc agtggttt 168

<210> 1440
 <211> 307
 <212> DNA
 <213> Homo sapiens

<400> 1440
 tttcacatac gaagaaatca actgtgatta tgaagtgaca gccagctaaa tatgtcttgt 60
 attttctctc ttcttttttt tgccctaactc atcctttact tccattcctg cttccatggg 120
 aatgcaggct caaataaatt actaggatac aagattactt caagcctctt ttctgtggaa 180
 ctcataatat gataagcatt tgttacaaga ttgcctgtag ttgttttagg gacaaattat 240
 attagggaaa gaaagtcttt ctttagttgg ttaaattttc tattataatt gggtaactaa 300
 tttattt 307

<210> 1441
 <211> 684
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 600
 <223> n = A,T,C or G

<400> 1441
 ttaagttctg gagtgttcac ttctgagcct gaattccctc ccctgcaaaa tgggggaata 60

```

ccctcctcag agggtccttg cgagggtgag gggagattca gcatggcagg tgtgctgggc 120
acggcagggc ctgggaaggg cagatccttt ccccatccct gccacaaaca acccaaacct 180
ttaaaggaga gcaatggcct tgtgtcaaaa aaaaaaaca aacaaaacc tgctcctagga 240
gactggggcc ctaatttcta atagcaagcc tttatgagtc cctaacaact tactgggctg 300
agtatctcac acgccagagg ataacctgcc ttctgtcac caccaccccg tagtagttgt 360
cattgtgtcc atttcacaga tgaggcaaag gtcagaaga gtcattgtgt aaaccagctt 420
ctagagccca tgcaggagct gcagggtgga gaatcacctc taggtgctct tcccatagaa 480
tctcacctc ctgagtgtca ctactcagc ttccaatggg tgtgtgacct ttgaccagct 540
ttcttctct ctgggcctca gtttcccacc tggacaaagt aagaggctc ttggcttcan 600
gtaagttctt cctaaacttc ttttccctt tcatttgagc atcctcttca tttttgccac 660
ctctctgtca tttacaggct tttt 684

```

<210> 1442

<211> 166

<212> DNA

<213> Homo sapiens

<400> 1442

```

aaaaaatcag cccctaattt ctccatgttt acacttcaat ctgcaggctt cttaaagtga 60
cagtatccct taacctgcc cagtggtcca cctccggcc ccggtcttgt aaaaagggga 120
ggagaattag ccaaacactg taagctttta agaagaacaa agtttt 166

```

<210> 1443

<211> 194

<212> DNA

<213> Homo sapiens

<400> 1443

```

tttgcctgt caaaagaaga gctaaagaca gttatataaa aattaagggtg ggctttcaga 60
ctggctaaca caacaacatt ccatgagtag atggtaattt atttttgttt atccatttcg 120
ttgggagcaa ggacaaaaat gtaaatctac accttgctta tcaaaattgc cgaaaaaaga 180
atgctctgcc tttt 194

```

<210> 1444

<211> 96

<212> DNA

<213> Homo sapiens

<400> 1444

```

gagatcgag agtgggagaa gagcggagcg tgtgagcagt actgcggcct cctctcctct 60
cctaacctcg ctctcgcggc ctacctttac ccgcc 96

```

<210> 1445

<211> 365

<212> DNA

<213> Homo sapiens

<400> 1445

```

gggatgagct gaccaagaac caggtcagcc tgacctgcct ggtcaaaggc ttctatccca 60
gcgacatgc cgtggagtgg gagagcaatg ggcagccgga gaacaactac aagaccacgc 120
ctcccgctgt ggaactccgac ggctccttct tctctacag caagctcacc gtggacagga 180
gcagggtgga gcaggggaac gtcttctcat gctccgtgat gcatgagggt ctgcacaacc 240
actacacgca gaagagcctc tccctgtctc cgggtaaatg agtgcgacgg ccggcaagcc 300
cccgctcccc gggctctcgc ggctgcacga ggatgcttgg cacgtacccc gtgtacatac 360

```


<211> 194
 <212> DNA
 <213> Homo sapiens

<400> 1450
 aaaaactcct tttgggtttac ctgggggatcc aattgatgta tatgtttata tactgggttc 60
 ttgttttata tacctggctt ttactttatt aatatgagtt actgaagggtg atggaggtat 120
 ttgaaaattt tacttccata ggacatactg catgtaagcc aagtcatgga gaatctgctg 180
 catagctcta tttt 194

<210> 1451
 <211> 106
 <212> DNA
 <213> Homo sapiens

<400> 1451
 aaagatgaca aatactgggtt aattagcaat ttaagaccag agccaaatta tccaagagc 60
 atacattctt ttgggttttcc taactttgtg aaaaaaattg atgcag 106

<210> 1452
 <211> 349
 <212> DNA
 <213> Homo sapiens

<400> 1452
 ctgcagatcc tgcggaacgt caccaccac gtttccgtga ccaagcagct cccaacctca 60
 gaagccgtgg tgtctgctgt gagcgaggcg gggcgctctg gaataacaga ggcgcaagca 120
 cgtgccatcg tgaacagcgc cttgaagctg tattcccaag ataagaccgg gatgggtggac 180
 tttgctctgg aatctgggtg tggcagcatc ttgagtactc gctgttctga aacttacgaa 240
 accaaaacgg cgctgatgag tctgtttggg atcccgctgt ggtacttctc gcagtcctccg 300
 cgcgtgggtca tccagcctga catttaccac ggtaactgct gggcattta 349

<210> 1453
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 1453
 aaaaaataatg tgcaagagca tcatgagaaa gaagaggggt gaagagataa tccagaggaa 60
 catcaaatgt aagagtatac actcaaagac aggtttaaga aagaccagtc agagaagtaa 120
 agaaaaaaat caagcaagaa taatgttgca aaaattaaca agaaagttgc aagcccagag 180
 tggtttagcaa tgccaaacta ccatgagtaa gccacataaa acaagaactt tgggttcaac 240
 tgctttaaca atcagacctt tagattcaca taacaggagt tacaaaatta agagcctctt 300
 tt 302

<210> 1454
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 1454
 caagcgtaaa ccgcgggagc cgagcccagc taggaatgca gacctcctga aaaccaagcc 60
 gaggactgcg gggctccggtg tccacgcaga gtgtcagctt cctctggtgc aaccagcaag 120
 tcttcagta tgaatccac agaaaccaag gctgtaaaaa cagaacctga gaagaagtca 180

cagtcaacca agccaaaaag cctaccaag caggcatcag atacaggaag taacgatgct 240
 cacaataaaa aagcagtttc cagatcag 268

<210> 1455
 <211> 207
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 29
 <223> n = A,T,C or G

<400> 1455
 ctgtcgagag cagccctgcc caagawtgnc ggggtgggggc tggtgccaac gggttcccaa 60
 ggscctttcm actttkgaak ggctggartt cttgggaaac cmaaacsctg actacctgsc 120
 ttttttcttg ggcatygacs tgcttcattt ccaaaratga tggkgcaggt gaccttttcc 180
 atcgtgagct aaaaaaaggt taggagg 207

<210> 1456
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 1456
 aaattttctgt ctgctaaaat ctatcaaata cattaaggaa aagtcccact tggcacatct 60
 cccacaccag atgttaatta ttcatactgc atgactgagg attttgagg cagagagaga 120
 ttcactctgca atatttgga caccaatgga ggtctacgtc aacacagaat ttatacagca 180
 g 181

<210> 1457
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 1457
 aaaaagwtca gaggttgaaat gcctttcaac cattkccttc tgtggtcatt tttcttgctg 60
 cctttttcac ccaagattca gcagtcagat gtttactgca cacctattac ctattatttg 120
 ctgttcttgc atggttcaaa ccaccattct gtagccaccc atcctttgcc ttatctaaca 180
 aacatttttc caggaaggtg gaaaaggaag tgttgctctc attgtgtgac tcagtgtgct 240
 tgtccatccc atggaaacat gggcacaatc aagtatttgc ccagcctatt gcaggctttt 300
 cctgacttt 309

<210> 1458
 <211> 117
 <212> DNA
 <213> Homo sapiens

<400> 1458
 aaagactatt gagaaatagg aaggtattga gagattattg ggtttcatca kagcagactt 60
 aagtagcctg gttgatttta gatttgctac agcaaaatca tgcttggatg ctcgagg 117

<210> 1459
 <211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 371, 379, 428, 469, 498, 506

<223> n = A,T,C or G

<400> 1459

```

aaagaatgca taccagaaca tttataagca gtggagtgag kthtattaag aatagtacta 60
ctacaataaaa cgctggctaa ataagaagtg cattatgtga agcactatgg gtggtatatg 120
cttwgmcaca tactctkggt accttgaggy agatmacrca tgkgaaccaa cttcggcata 180
catttttcagt tgctgcgagg aatcatgtgt tttaacgaaa tgcgtcagta tgaaaaactt 240
gaaaatatctc atgaatgawg aacgcmttag gaaaaaaata kstattctca tgcaattatg 300
tacagtctca ctgtgtarat ctcaaggcaa ggtttgcctc ctgtaaacca gatcaagggtg 360
ctatgagaga ncgccytgnc ttattgcatt tcttttctcc tmcctgcgcca gcattatatt 420
gctctagnct ttatttttgt gtgcacactg acatgccatt aaaratgang ractatctca 480
catgtagaaa argaaagnmc ttggankcta cctcaggtcg ctaccacgct aaggggyaat 540
tctgcaggat atccatcaca ctggcggcgc gattg 575

```

<210> 1460

<211> 444

<212> DNA

<213> Homo sapiens

<400> 1460

```

ctgggggttc cttccttcac gttgagaacc tggagcagag agtctacca cttagaagaat 60
attagaaaga gttcagcaaa cagagtgagc tgaagtctaa tcctagaagt aaatccattc 120
ctacaagtca tcagcatcac ttgggagcct gttagaaagg caaattcttg gttcagccta 180
acacctaata aatcagaaac tctgggggcg gagcgcagca atctgtactt tcacaagccc 240
tgcaagtgat tctgagcctg taaaatttga gaaccagagc tgtccccag gagataaatt 300
aacttctact tttttttgag ctactgcatt ttgggatctt attgttttat cagcttaaca 360
tgcatcctga tatgattact caggtatgtt tcaaccaatg ttggttaatg tattatcccc 420
aggaacttat tactagagga gcag 444

```

<210> 1461

<211> 536

<212> DNA

<213> Homo sapiens

<400> 1461

```

ctgcaaccct gggactgacc gggaggctct gattatttac ccmaccacag gtaggttgtg 60
ttctgaatct caggttcaca ggtaaggtt cagcatcctc atcctccacg gggttggagt 120
tggtgctggg gatgaagggt ttgggtggct ctgcatagac tgtgatcgct gtgactgtgg 180
tcctattgag gccactggct gagttatttg cctggcaggt atagagtccg ctgttcttct 240
cagtgatgtt ggagataaag agctcttgct tgtgttgctg gatgttccca tcaatcagcc 300
aagaatactg tgcaggtggg ttagaggctg catggcagga gaggctgagg ttcaccctctg 360
gacggtaata ggtgtatgag ggggaaatgg tgggkcrctc ygggccatag aggacattca 420
ggatgactgr gtcgctgtgs tyaractta atkegttctg gattccacac tcatagggtc 480
ctacatcatt ccttgtagaca ytgartagag tgagggtcct gttgtcattg gacagm 536

```

<210> 1462

<211> 409

<212> DNA

<213> Homo sapiens

<400> 1462

```
ctgakagacc aggagaagtt ccagatgcag agactgtgat gctottgact atggaattat 60
tgcggccagt agccaagtta gagacaaaac aggcataagg cccgttatta tttggcgtga 120
ttttggcgat aaagagaact tgtgtgtgtt gctgcggtat cccattgata cgccaagaat 180
actgcgggga tgggttagag gccgagtggc aggagaggtt gaggttcgct cccgaaaggt 240
aagacgagtc tgggggggaa atgatggggg tgtccggccc atagaggaca tccagggtga 300
ctgggtcact gcggtttgca ctactgagt tctggattcc acatacatag gctcttgctg 360
catttcttgt gacattgaat agagtgaggg tcctgttgcc attggacag 409
```

<210> 1463

<211> 502

<212> DNA

<213> Homo sapiens

<400> 1463

```
ccttcagcct ggatccttta tattaagatc aatgaggacc atttctggaa gatgtctggc 60
atggtacaga ctgtctgagg ccractgaac acaggccctt accctgattt tatcagtga 120
aagctatggg actagtttcc ttacctctaa aatggagaga ataatagaat cttccgtcta 180
agactkctgt gagcataagc cgagaaaatg gaggtaaact gcttagccca atacttggat 240
tatcgtaaat attcagtaaa actagccacc gttgttattg taattattat tttgtatttt 300
attatacatt tcatggaaac ttaaaagtta gtgataatca cctcattttc agttgccttg 360
ctttcttcct gtaaatttta ttctctctta tcttgctcac tgtctttaag cattgccagt 420
ttagtataat tattttcccc tatectctat aaaatcatat acaggatgga tttgttgatc 480
tcagacatgt tcaactgagtt tt 502
```

<210> 1464

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1464

```
ggcggctcgg actgagcagg actttcctta tcccagttga ttgtgcagaa tacactgcct 60
gtcgttgttc ttctattcac catggcttct tctgatatcc aggtgaaaga actggagaag 120
cgtgcctcag gccaggcttt tgagctgatt ctacgccctc ggtcaaaaga atctgttcca 180
gaattcccc tttcccctcc aaagaagaag gatctttccc tggaggaaat tcagaagaaa 240
ttagaagctg cagaagaaag acgcaagtcc catgaagctg aggtcttgaa gcag 294
```

<210> 1465

<211> 249

<212> DNA

<213> Homo sapiens

<400> 1465

```
gtgcaggtct tcagccgtga cccggtaccc cagctctaag ggaggtggca gcatcaaagg 60
ctcccctcgc ctgctgtgca gcaggggaat cttgcgtcta cggggcctag agtcatggga 120
tctgggggag ccaccctgg gggcaagtgt ctgccctggg gctgtacctg ccttgttttc 180
acagcgggtga cccgaagaga cagcctgagg tccgtcctca ctactgtgt ttgaggaaact 240
gtgggccag 249
```

<210> 1466

<211> 203

<212> DNA

<213> Homo sapiens

<400> 1466

```
cctcagacac cttttaattg cttaggagaa accattgtct ctgactgcag gtttgaataa 60
gttgaagacc agagaaaagt acacactggg ctacaaagga atttggagat agccaaggaa 120
caggatttcc cctagcaagc taccttctgt tcaaatcatg aaaaaagact atttcccctt 180
agaataggga agcttgctat ttt                                     203
```

<210> 1467

<211> 223

<212> DNA

<213> Homo sapiens

<400> 1467

```
ctgtcagaac aggaacgacc tgggttatgg aagcccagaa agggaggagg acttcttttg 60
gtcccagtga aagatgcttc cagaatctgt agccttactt atttgcttgg atctcactgg 120
aataaacttg tggtagagtc accggttctg gggtagatcac tgggtttgct gcatagatgt 180
ttggatagat gacactcaca ttgcttgatt gacagcagac caa                                     223
```

<210> 1468

<211> 177

<212> DNA

<213> Homo sapiens

<400> 1468

```
ctgcattatg tgtgtttaga acgagaagtt gtttgtacag tatttttcta ttgaccgctt 60
ccgtcttgcc tgaaacctgg gcattctttc caatagacag aaaatcagag agtcaaattc 120
gatgcgcaat gagttgttct gagaccagta atccacggtg ctgcaatttg gggttttt 177
```

<210> 1469

<211> 185

<212> DNA

<213> Homo sapiens

<400> 1469

```
ctgaagctga gaagtagcct atctatggar gagacttttg tttgtgttta attagggcta 60
tgagagattt caggtgagaa gttaaacctg agacagagag caagtaagct gtccctttta 120
actgtttttc tttggtcttt agtcaccagc ttgcacactg gcattttctt gctgcaagct 180
ttttt                                             185
```

<210> 1470

<211> 482

<212> DNA

<213> Homo sapiens

<400> 1470

```
ctgaccagga gggacggttc tgtggaacgag gacttcgtag ctgaggagcc agattttctt 60
ttggtccctt cctcctggaa tggaaatcgtg ggcgtactgt ggagatctga gttgatgtag 120
cacctgcttc ctcggtatga gtccgcaccc cggaccagat gccgctcggc cgtgggtctg 180
gagaaccggt atgggggaga ggagctctct tcaatgatcg gaggaatccg ctctgttactg 240
aaataccggc aaagggcatc ctcccccttc ctgccatgac ctcgaggtct ggcaaaaggg 300
tccacaatcc ccatccagtt cccatcagca ggcattggaca aaggccgtgg cttgccttca 360
gagggacgag aaagaagggtg acaagtttga tgagttctgg aacttttagt aaccgttccc 420
tttatgtata acttagacct cacaatacca caccactta gacagaagca ataacaaatt 480
```

tt

482

<210> 1471
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 1471
 tgtgtgaact tagactkwtc aattcaacat ttttaacrta tkaaatacta ttgtgaattc 60
 aatgaagtgt tcttatgcc aacttttaa cctattccct tactcamgga tgtaggyaaa 120
 rgatggtaac aatacactat tkggcaagat aatgtmctga catmtytagc aatstttttt 180
 gmcagtggct tkcaactgma mwkaaskkam mkaatattgy tkctgtwsgt arattattat 240
 tctgwywyt aatcattt 257

<210> 1472
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 1472
 cttttgcgag cctctgccgc agcagctccg ttttcacgcg catctcgttt ttgtgtgtgt 60
 gtttttggtt tgtttttggt tttgtttttt tgtttcagag aattggaagc taaagctacc 120
 aaagacgtag aaagaaatct tagcaggtaa gatgggcgag ctttcctgtc cccgccccac 180
 gataatcgta tattttctact ccgattcgcc ctttctgggt tgagaagttc ccccgtagaca 240
 ttttcttccg caccgcggaga gcagacattc gggagaagcg gcctggggga atactggagg 300
 gattgcgggg agatgcgtaa ttacgcgtgt gtttctttct tt 342

<210> 1473
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 435, 442, 454, 462, 476, 524
 <223> n = A,T,C or G

<400> 1473
 ctgctacatg tcttcacagc ccaggaattc aaggcccagg tggcagcagg aagaaacagt 60
 ggaaaagcaa ggggaagaga aaagagaaaa aggaggggga aagtctgcat aactgtcata 120
 acctctgctt ctctgtctct gtaacaaacc cacaaccagg aagagtcag gtctggaaca 180
 atcatgggac cccaaacgcc tgtaggtttt ttaccaccaa acatcaccca tggctgctct 240
 aagctgtcat tttgttccca cagttacct gcatcacgga tgcccaattt atggcccagg 300
 aaggctgacc caggctaagg gcagtctcac tccacagcca tgcaatggac agtctgaatg 360
 tttcctaccc cagaccttta ctgacctcta ctatttctc ctctgatata aaagaaaaaac 420
 acttttaatt ttctnctgca tntacatct cctnctaaaa antttggcct aattgncatc 480
 aaaaccttgt aggaatctga aattttgggt cttctgaatc ttancc 526

<210> 1474
 <211> 187
 <212> DNA
 <213> Homo sapiens

<400> 1474

```

aaacttgttt gctgtgaaca attgtcgaaa agagtcttcc aattaatgct tttatatct 60
aggctacctg ttggtagat tcaaggcccc gagctgttac cattcacaat aaaagcttaa 120
acacattgtc caaaaaaaaa aaaaaaaaaa gccccykccc sgggggsckk ttmaaggggr 180
aawtccc 187

```

```

<210> 1475
<211> 474
<212> DNA
<213> Homo sapiens

```

```

<400> 1475
ccattctctt tatctcaaac cgaagaaaga tatgatgcag gcagtagttt tttcttagtg 60
cctcatagta tctaatagca gaaagtgagc cgcatagcgg agcacattag tttttatgta 120
tctacaggac agaagggccca cttagctgat ggctccaggt ttcttttgat ataatctaata 180
gttctatga cctcaaagac tgaacacatt tccctaagtg cttcacttag caccaggag 240
caacttggag tcttcgcaga ataaaatcca ttattttaat gtagattaat acatgggtac 300
ttatatctat gcaggtctat aatagtttat tcctatgtaa gctttattaa aagcattggt 360
atgttttaca taaaagttta atgtgaatat tagaaaaaaa ggacaatatt aaagcagttt 420
gtagaatttg ttcccccccc aaaatgaatg aaatacacaa tagatgtaca aaaa 474

```

```

<210> 1476
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 1476
ccttgggggac agggcaggag gacgcacacc tcatggacag ggcgccagg gctgagatac 60
cagcggggtg ggtattcccc gcgggtgctt acctccaaca gtgtcttgat agcaaaggcc 120
atgatgccct caaagatgat gacgtttgca ccatacagtg tttctgtga agaaaccag 180
gagttgcgga gcctggctca tgtgcctgca gcccccgag gccccctctg caggggccctg 240
gcctaccag tcttcttcc ggctgtgcgt ggtgaagtca taaatgggca ccttgacact 300
cttcccctgc ttcagcttct tgagggtgga aatgatgaag gtcgaagtca aaaggcatct 360
ggggtgggtc gaaagtttga aagtttgctt gtggtgcgg g 401

```

```

<210> 1477
<211> 753
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> 59, 75, 152, 194, 200, 203, 205, 674, 682, 709, 737, 746
<223> n = A,T,C or G

```

```

<400> 1477
cagcatgctt aaaaagttgg aggaattgga acagaaatac acctwmcaac ctkrmcctnt 60
taccaaaaac aaacnagtgg tatkggamcc sacctttmrk ctttttcmac macttatttc 120
aaagytsrth kgtggkgaaa agmcacycyk snatscywcc rcacccttgw aggcyygttg 180
acttrataac akknctgctn atnwnrtgta ggggtgatay tgatgrtgaa attgcactta 240
gctgggttat aattkgaaag tcaaagtctt atttgataaa gatgtgaatg agagaaatac 300
agtaaaagga tttaggaagt tcaacatttt gggcacgcac acaaaagtga tgaacatgga 360
ggagtccacc aatggcagtc tggcggtgga atttcggcac ctgcaattga aagaacagaa 420
aaatgctggc accagaacga atgagggtcc tctcatcggt actgaagagc ttcactccct 480
tagttttgaa acccaattgt gccagcctgg tttggtaatt gacctcgaga cgacctctct 540

```

```

gcccgttgtg gtgatctcca acgtcagcca gctcccgagc gggtgggcct ccctcctttg 600
gtacaacatg ctgggtggccg gaaccagga acctgtcctt ctctctgact ccccttgtg 660
cacgatgggc tcantttt anaagtgtt gagttggcag tttttcttnt tgtcacccaa 720
aagaaggtct caatggnggg acccanaaacc ttt 753

```

```

<210> 1478
<211> 421
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 399
<223> n = A,T,C or G

```

```

<400> 1478
aaacctatac tcactttccc aaattgaatc actgctcaca ctgctgatga tttagagtgc 60
tgtccggtgg agatccacc cgaacgtctt atctaatacat gaaactccct agttccttca 120
tgtaacttcc ctgaaaaatc taagtgtttc ataaatttga gagtctgtga cccacttacc 180
ttgcatctca caggtagaca gtatataact aacaaccaa gactacatat tgtcactgac 240
acacacgtta taatcattta tcatatatat acatacatgc atacactctc aaagcaaata 300
atttttact tcaaacagat attgacttgt atacctgtta atttgaaata ttttctttgt 360
taaaatagaa tggatatcaat aaatagacca ttaaccaana aaaaaaaaga aaaaaaaaaa 420
a 421

```

```

<210> 1479
<211> 214
<212> DNA
<213> Homo sapiens

```

```

<400> 1479
ggaaatatat aataaaaatg ttaaccagaa ggtaaacttg agtgtaattg tcagacagac 60
acacttttcc accagtgtat ttgaatttta gaccagtgc cctgttttgt ggcattcatg 120
caaaacatgc tgagggtttt gttcatctgg tcatcgtgtc caaatttcag tcatgtttgt 180
agcaagattt tggaagcatt catatttctt tttt 214

```

```

<210> 1480
<211> 434
<212> DNA
<213> Homo sapiens

```

```

<400> 1480
ggaggccgct tacgtaaagc ccaggggaca ttcaacagcc cctactaccc aggccactac 60
ccaccaaca ttgactgcac atggaacatt gaggtgcccc acaaccagca tgtgaagggtg 120
cgcttcaa at tcttctacct gctggagccc ggcggtgctg cgggcacctg cccaaggac 180
tacgtggaga tcaatgggga gaaatactgc ggagagaggt cccagttcgt cgtcaccagc 240
aacagcaaca agatcacagt tcgcttccac tcagatcagt cctacaccga caccggttcc 300
ttagctgaat acctctccta cgactccagt gacctatgcc cggggcagtt cacgtgccgc 360
acggggcggg gtatccggaa ggagctgcgc tgtgatggct gggccgactg caccgaccac 420
agcgatgagc tcaa 434

```

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<210> 1481
<211> 131
<212> DNA

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<213> Homo sapiens

<400> 1481
 aaaatcccca taaatctttt ctgtcctgag gtagttgcaa aataaatcat aacttggata 60
 tcaactagag ctgaggcttt gactttttac tcattaaaac tagttgttac aggaactacc 120
 tttagatatt t 131

<210> 1482

<211> 324

<212> DNA

<213> Homo sapiens

<400> 1482
 tgctcgctcc tcagaggctg aaaacatgag aagctaggtg tggtgaaacc aaagcagctt 60
 tattgttcaa atgctaaaga cgggaggatg gactggctca agccttaaag aaaccatctc 120
 gactttttga actcagtga cgggttttaag gaaaacgtgg gaaatatgca aagggtggtgc 180
 aggagggtgc aggtctgtgt gtcttattcc catggatatc ttgagtaatc gcttgtccag 240
 aggtgggggt tgtgtcatcc tgaattcaac ccagcaatgg taggggtactg ttcataactc 300
 accctaagcc agaagattcc tcag 324

<210> 1483

<211> 393

<212> DNA

<213> Homo sapiens

<400> 1483
 atgtttaatg aatgatacag gatacatccc tgttgaagc ttgcaaaaga cacatacaact 60
 gtggtacata tttgatttaa tagaagtgtt ttatcaggct atatatatat ttgccccaac 120
 atgcaccaca ggataaaata actattttaca taacataggg tatttaattg acatagacta 180
 tcagctttgc tgagagcaga agatggcaaa gcaatactgc agcagaaaagt ggaacaacta 240
 ttctaaagca atactttaga tatatttttc tagaatggat ttattagatt actttttgga 300
 aagcatttga cctaaattaa atatagagct ctgaaactta gaataaaatt tgcacttgct 360
 gaaacagaat actttgcata aaaataatcc ttt 393

<210> 1484

<211> 323

<212> DNA

<213> Homo sapiens

<400> 1484
 tttagatcag aaagtttgag gtcttcatca gcagacactc gtgcttctat ttttcttggt 60
 ttatcgaaca gttctgaaac tttgagaaaa aacttgcata tatctgtaga atcctgagtt 120
 cctaaagcat ataatgaaga accaattcta ttgtaatcat ctgcagcact tttgtgggat 180
 cttgtcattc tatcagattt agcagatgca tccttaactc ggttatgata ttccaaaaga 240
 aatgttcggt cgtgctcaaa gaaatcatct acatccttta ctctgaaac gattactcca 300
 tctgctgatt taaccatggt ttt 323

<210> 1485

<211> 405

<212> DNA

<213> Homo sapiens

<400> 1485
 aggagcgtca ggaaaacacg ggcagcctgg gctctgaccc gagccactcc aactccacgg 60

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ccacgcagga agaagacgag gaggaggagg agagttttgg gaccctctct gacaaatact 120
cctcccggag actattccgc aaatccgcag cccagttcca taacctgcgg tttggggaac 180
ggagagatga gcaaattgaa ccggagccca aattatggcg aggccggaga aacaccccg 240
actggtactt cttgcagtgc aaacacctga tcaaggaagg gaagctggtt gaagccctgg 300
acctgtttga gaggcagatg ctgaaggagg agcgattgca gcccattggag agcaactaca 360
cggtgctgat tgggggctgc gggcgggttg gctacctgaa gaagg 405

```

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<210> 1486
<211> 230
<212> DNA
<213> Homo sapiens

```

```

<400> 1486
aaaaatatgt ggattgtgct tgacgtagca aatttcttct atctgcaaaa gcccttttct 60
cactacctca tatacacccc tttgatatgg caccatgttt gaaattggag cgtacacaca 120
tagtcattgg atttactggg attctctttg tgacaagtag gagccaaggg gtcattgcagg 180
gaagcgaacg tgcccagataa ggatttcctt gttgccagag tgtttagcag 230

```

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<210> 1487
<211> 273
<212> DNA
<213> Homo sapiens

```

```

<400> 1487
tttccactct gcacattgta gagggaacac tctgtaggcc catgggtccc ttactagaga 60
ggttgagtga atttgccctc agttaacatg ggaccttctg tttagcttcc tcttgcttcc 120
caaagatttt aagcattttg taaatgtata aactcacctc tggtaacagt ggcccagacg 180
ctgctttgtg ctaaaagcat gggaaatgta aaggcagctt ttctctggga aatggatgct 240
attctattct gctgccccta cctgttctcg agg 273

```

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<210> 1488
<211> 452
<212> DNA
<213> Homo sapiens

```

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<400> 1488
cctactgtgc cccgtaggca aagctctgaa gatttcatcg aaaaatctgc tgtcaatacg 60
tagaaaagtt cactatttca gtttcacagc aaaaaaggtg gggggagggg ggaacccaat 120
agatatttaa gtagatgctt tccaatccca ttcactgcat taattagctt acctottata 180
cagtacaaca taaacattgc atgtttatatt gtatgtaaca cctataagca tatagcatct 240
acattttaag tgtatttaca aattcaacaa aatatctaca tataaaaagc tttacttaaa 300
attaaacttg atgcaagtta tgagaaacca atttattggc aaatgaaact gagcattcct 360
tcaaccatag gttgttatag attttcatat ttggaggtaa cccatttgat agatattggt 420
tatgaatacg atagaatata tatttacttt tt 452

```

```

<210> 1489
<211> 653
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 556, 562, 568, 573, 589, 592, 632, 637, 645
<223> n = A,T,C or G

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<400> 1489
 cctgctcttc tcttcaaagc acttagtaca cagggktaca ggtgctacca cttggattcc 60
 ccagagcatg gaagtctgat cccaggttga acatatttct tctgaaaatg agcatcttgg 120
 ttctatagat tcttatcttg ctcacaggac ttgctccaaa actgaatttt cagaagcagc 180
 atgataggga aagagatatt caactctgac agacaaggta gatcgaagca cccacactaa 240
 tttctttcag gtgccccatg aggaagactg catcatgtca cttccactca cttggggaga 300
 ttctaggact gagacacaaa gtccccccag agtttctgct aatggaaggg gaaacagggtg 360
 gtttggaatg gaaagggtgga accagggtcca caaaatgtgc tccctctgct caagactgac 420
 tttggctttc ccagggtccc acttgacttt catataagct gagatgacct attacgggaa 480
 aaattaggga acacctaata aaaccaactt tcaaaaaactc ctatttatca tggatgtgcc 540
 acgatcgaga gaatcnaaca cnaactgnct gtnagagagg ccttcattnt gnctcatctt 600
 gagctaaaat cctgrcttgg gatgccagaa ancatgnccc tcttntcggg ttg 653

<210> 1490
 <211> 363
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 347
 <223> n = A,T,C or G

<400> 1490
 taacctgaca aaataaaaact tagtaaaatc takaactgtt tcttggccta cttgagagga 60
 acttccatat tttcacagcc atctccgaaa gcagcagttg ctgtaaatta actgagactt 120
 ggaaatggtg cagactgtct tggtagagct gttcttatag cacaatttta tctggaaaat 180
 aaacttgtaa atgogtgctg tatattaata catgtgtgcc catatttatt tttattatct 240
 cctgccagtc tttgctcaat gggagatgac agaccaactt ctcaacgtga tttccccatt 300
 tcattgaatg agattttatat gccacttatg aaaaaaata ctgctgngaa agaaatgtac 360
 ttt 363

<210> 1491
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 1491
 taatcagccc ctaatttctc catgtttaca cttcaatctg caggcttctt aaagtgcag 60
 tatcccttaa cctgccacca gtgtccaccc tccggccccc gtcttgtaaa aaggggagga 120
 gaattagcca aacactgtaa gcttttaaga aaaacaaagt ttt 163

<210> 1492
 <211> 184
 <212> DNA
 <213> Homo sapiens

<400> 1492
 yattccccag gggaaaaatt gaaagtcaaa ctattcacca agagaatgca ttgtctttgc 60
 aaatgagcct aagaatcaga ctttttataa atacatgttc aagtttcttg tggttctaaa 120
 tggacactga gaactgaaac tgtctacacc aagttttacaa tctatattaa ctatcattwt 180
 acag 184

<210> 1493
 <211> 273
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 39
 <223> n = A,T,C or G

<400> 1493
 aggtaawttg tgatatttag tgcacattta cgtgtaggnc crtcttkaat ggtaaagaca 60
 gatacaagcc tatggcacac ttctocaaag caagctatac ttgagagcca attcccaaat 120
 aagacagcag agatctgatt aaatgcaact gtgcaaacat tcaacagaca tgttgaatgt 180
 aagacaaatt atgattactg ataatatgca aatgtggtct ataaatttat gaatgtgact 240
 tccaagggga atatggtatg gaagcccatt ttt 273

<210> 1494
 <211> 343
 <212> DNA
 <213> Homo sapiens

<400> 1494
 ttggaaaaggc tatcaactttc tctcttcatt ctccagcccc cacaccaagc acacagagct 60
 tttcagtgtc ttactcttaa tggagaacat aaccagggat tatcaggtat tccaacatga 120
 aaaagaaaagt ccaatagaaa caagcaggat aatcaaacca ggaggaagca gagactatat 180
 agagaaaagaa aaaaagacac atgggaataa cggcaataat actgacaata cacctcacca 240
 taaacttatc agaatgaatt tgttggagaa atatatggag gggaggtact tgtgtgtgtg 300
 cacaggcact catgtacacg tgtgtatgtg tatgtttttt taa 343

<210> 1495
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 1495
 tagcattctt ccagccactc tggcgtcact atgtgcttca cgacagaaat cgccgtcagg 60
 aacttcacgg tgcgagtcac tttgctggca atgaggtgtg tgcacttctg tgcagactcc 120
 gcaacctctc caccaagaat gtagagcttc ttaatatata gttgaacctg gacaggctcg 180
 aatccagtga aaagcacaaa aggggtcaat tctggagtta gcttttttagt gggaggtggt 240
 acgtcttcaa ttctggctct tttggaagaa ggotggacat tagctacttc attctgtttc 300
 agtttgggag gtagtcttat actcatcaac aactctgcag acacttttaa gggaaactctc 360
 caagcatcta aaagattt 378

<210> 1496
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 1496
 tggagaagga agttttcctg aagagccaga atccttgcta agtcatttag atccaactga 60
 ccatctttat ttctgtcaaa aatcttcacg atgggtgccag tgtattcttc cagtttagcc 120
 tcagaaatgg cttttttgtg gtgaagaaag aggtctcgga ggaagttgcg gagctcagca 180
 g 181

<210> 1497
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 1497
 tgaagctga tccaccttga gatcaagccg gccatccgga accagatcat ccgcgagctg 60
 caggctcctgc acgaatgcaa ctgcgcgtac atcgtgggct tctacggggc cttctacagt 120
 gacggggaga tcagcatttg catggaacac atggacggcg gctccctgga ccagggtgctg 180
 aaagaggcca agaggattcc cgaggagatc ctggggaaaag tcagcatcgc gggttctccgg 240
 ggcttggcgt acctccgaga gaagcaccag atcatgcacc gagatgtgaa gccctccaac 300
 atcctcgtga actctagagg ggagatcaag ctgtgtgact tcggggtgag cggccagctc 360
 atcgactcca tgg 373

<210> 1498
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 1498
 gctcttgtag tgcttttctt ttaagggaga tgtagtaaaa gggaaaatgt agctcttagt 60
 ttacacttca aagatgtggg ggtctttcag agaactaaga ataacagttt tatgtgcaga 120
 gagagtttgc cagatctgaa gcatatacct cattgactag gctgttactt tgggataggt 180
 tgcagtaacca gccacagcca gcagatagag gaaaagacac acataaactc gcttctgagc 240
 gtccacttct gcaactctctg ctctgctgtt actcagccc tgagtctgac toatctctgc 300
 acaacctctc tgtgccatga agataagtct tccatgg 337

<210> 1499
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 1499
 catgcggagg gacttttagca tggctgataa ggtccttcct accattccaa aagaacagag 60
 gaccagagtt gcacactttt tggaaaggca gggcttcaag cagcaagctc ttacagtatc 120
 cacagatcct gagcatcgtt ttgagcttgc tcttcagctt ggagagttaa aaattgcata 180
 ccagtttagca gtggaagcag agtcagaaca gaagtggaaa caacttgctg aacttgccat 240
 tagtaaagtgt cagtttggcc tagcccagga gtgcctgcat catgcacagg attatggggg 300
 cctgctgctt ttgg 314

<210> 1500
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 1500
 cctgaaacct ggtgggaaga tgattgaaag tgtttttagat tcaacagatt gactatgtat 60
 gacttatcta ttaaaatgaa gaacttccat ggtttaatag aatgaatgct gtattcaaca 120
 aggtcttcca tccttcttat aaatcttaag actgtgttta agctttcttt cacttttact 180
 ctatcccttg gaagttaatt gggaataaaa agatttatca atttagtcac tataatttaa 240
 ggccaggcat ctgcttgga atacaataac cacaattaat acttagagaa aattgtttca 300
 acagattaac tctgctattt t 321

<210> 1501
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 1501
 ctgctctggg gaaaatggtg gaggagccag gcagagagga ggagcagagt gctggcagtg 60
 gaaagcctag ctgagactgg agatgcccc ctgcccagg catctcagcg aggatgcttc 120
 tccatatggg tgagccagcc tagagacaga acaggggaag ccagcgggtg ctgcagcgac 180
 ccaccgcccc agaacatctg catcttacat caacaaaggt ttatttctca ttaatatcca 240
 ttgtgggttg gctgccactc taaccctcgt tgcctctcca totgggtctt ggggtggcaga 300
 gcagcctgtc tctgtggcag aggaaaagag agcactgggc agcacaggct gactctcaaa 360
 ttttccgcct gaaggtgacc caagtcactg ctcacatttc attgactaaa gcaaaatcct 420
 atgcctgtgg gtgagttgag caacgtgatg aggtgttaac ttcctacagg gaggggctca 480
 aatattgccc aacagtggta tggcccactg cctgggggtg tgggtggaag gctggcagga 540
 caaggagagac cacgtgg 557

<210> 1502
 <211> 249
 <212> DNA
 <213> Homo sapiens

<400> 1502
 cctgcgggga ggcgcgctgc aagaacctgc ccggctccta ctctgcctc tgtgacgagg 60
 gctttgcgta cagctcccag gagaaggctt gccgagatgt ggacgagtgt ctgcagggcc 120
 gctgtgagca ggtctgcgtg aactccccag ggagctacac ctgccactgt gacgggctgt 180
 ggggcctcaa gctgtcccag gacatggaca cctgtgagga catcttgccg tgcgtgccct 240
 tcagcgtgg 249

<210> 1503
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 1503
 ccaggacctc ttttgggcat ttcttctctaa gtggaataca caacagataa gggagtaggg 60
 gaggtaatatc agggagctc ctctttccag ctccagaagga gttgatgaag cccatatatg 120
 cattcaagaa gcccatggga tctcttagct gtggatagtg gctaattgtg tcatccagaa 180
 tcgacactgt ggaccgcggc agcgttttcc tgtacagctc caaaaactct gcatagggat 240
 ttacaggatc caatggccca tagataaaat gaatggggat agttacagag gcaagagctc 300
 cc 302

<210> 1504
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 1504
 ccacgatatc aactatttgg ctttgtcagg tgtttctctca aaaattggca gaagtgggtga 60
 gaatccgtat gccccgctga atctcctggc tgactttgct ggtgggtggc ttatgtgtgc 120
 actgggcatt ataatggctc tttttgaccg cacacgcact ggcaagggtc aggtcattga 180
 tgcaaatatg gtggaaggaa cagcatattt aagttctttt ctgtggaaaa ctccagaaatt 240
 gagtctgtgg gaagcacctc gaggacagaa catgttggat ggtggagcac ctttctatac 300
 gacttacagg acagcagatg ggggaattcat ggctgttgga gcaatagaac cccagttcta 360

cgagctgctg atcaaaggac ttggactaaa gtctgatgaa cttcccaatc agatgagcat 420
ggatgattgg 430

<210> 1505
<211> 164
<212> DNA
<213> Homo sapiens

<400> 1505
ccagtcacct tcaccttcta actaactagc ctccggatga ggtggctgcc accaggcccg 60
aatgatcccc aggagcccag cttccaaacc ccaacatcga atcaaacatc tccatcccca 120
agtgcagtaa cacacaaaaa ccaaacactc tgccctggga aagg 164

<210> 1506
<211> 189
<212> DNA
<213> Homo sapiens

<400> 1506
aaaagtcata aggggttttat tttgtatcat caaaatattc tataagggtcc caaataactct 60
ttttcaacct atgaacagta agaatttgtg aattctgata atgaaaaaag ttttcctcca 120
ggtatgtttg tttcacattc agtcctaaag ccttgagcta tgtgtacttc cctcacacag 180
gaacaccag 189

<210> 1507
<211> 268
<212> DNA
<213> Homo sapiens

<400> 1507
ctgcacagag gggcacggaa ctccaaatcc tggaatgcgg gtcaataatg tgaattcttg 60
ccctgaccgc cagacacaca gcaagcctga gtcactctgcc gtcaccatgt cagccacaca 120
atcctgtccc tgggcaggct cgggtggcaat gtctgtgatt ggcactctggt gccagccag 180
ctcctcgctc agtacaatgt tgggaccctt tgctgggatg tcaaacacca gcaccgggcc 240
tgaccacgtt cccacacaga tgaagtgg 268

<210> 1508
<211> 159
<212> DNA
<213> Homo sapiens

<400> 1508
aaagatggca aggcaataaa tgtgttcgta agtgccaacc gactaattca tcaaaccaac 60
ttaatacttc agaccttcaa aactgtggcc tgaaagtgtg atatgttaag agatgtactt 120
ctcagtggca gtattgaact gcctttatct gttaaatttt 159

<210> 1509
<211> 234
<212> DNA
<213> Homo sapiens

<400> 1509
ccattgtgga gtacattatg aacacaaatgt gcttgykaag tcttctctct cattttcaga 60
cagcaattgt taagagtcac acacacgtcc cagacctaag cagcaactcc agtgaatggg 120

actcagacac actcacggga cagcacagaa cttgattctt ctttgtctgt tgcccaaaga 180
acctgttctt tgagtctgtt ccagggtgact tgtaatgata cctcttacgg tttt 234

<210> 1510

<211> 437

<212> DNA

<213> Homo sapiens

<400> 1510

aaagcagtag atcttaatat gaagacagga atttctatga tgcttacgaa cattagactc 60
aacatttttg cagccccctt tcttgggtcta cattcacaca aacatgagac acagtcccaa 120
gggagaaaca gatgctggag gagcatttag ggccagagtg gaggcacaga ggaagctggg 180
atttttcaac taccocctcc ttgggttactc ctgggattcc cttaggattt cacggcacaa 240
ccagcgaaga gtttgcctcag attcacttcg gagtagccac ttcgggacaa gaattgctct 300
gctgtgttct tgagtcttct gtagtcctgc agaactttgg gggtaaaaaa ttgcttcttc 360
aatttatctt tctcatgac ggtagtaagt ttctccagtg cactactccgc atcaaaaatg 420
taccggtaaa agcacag 437

<210> 1511

<211> 94

<212> DNA

<213> Homo sapiens

<400> 1511

tgtgaagatg gagtctgagg ggggtgcaga tgactctgct gaggaggggg acctactgga 60
tgatgatgat aatgaagatc ggggggatga ccag 94

<210> 1512

<211> 493

<212> DNA

<213> Homo sapiens

<400> 1512

aaaaatatgc attacaactg gagttttcca ctgagaataa gagtttggtt ttgacctcmc 60
ataaatccaa gggttcttga aaaaaaagtt aatataaatt ctcaataact atatcattaa 120
taccttatgt atacatagga gtttatataa tgcatttaag taacaaagaa tgtaacattt 180
attagccacc aagtaattag gagatagcat caattatatt gaaagaagat gagtttagat 240
gcttatagtc aaggagagta attgaaattg aaagctattg taggtgggta ctactattat 300
tatcaaacct gaaagttgga acatgtgaac ttgatccttt gcacacataa aagttcacaa 360
agctgctttt aatttgcctt tgttctgtag tactgcttgg tgaatcatgc actagtttgt 420
tgtaaaattc atgtaaactt ttatgtatac aaatgtcaga tcaagcacag gttttattaa 480
ttatatatat ttt 493

<210> 1513

<211> 510

<212> DNA

<213> Homo sapiens

<400> 1513

aaatgaggat tattgatagt actcttgggtt tttataccat tcagatcact gaatttataa 60
agtaaccatc tagtacttga aaaagtaaag tgttctgcca gatcttaggt atagaggacc 120
ctaacacagt atatcccaag tgcactttct aatgtttctg ggtcctgaag aattaagata 180
caaattaatt ttactccata aacagactgt taattatagg agccttaatt tttttttcat 240
agagatttgt ctaattgcat ctcaaaatta ttctgccctc cttaatttgg gaaggtttgt 300


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gttttctctg gaatggtaca tgtcttccat gtatcttttg aactggcaat tgtctattta 360
tcttttattt ttttaagtca gtatggtcta acactggcat gttcagagcc acattatttc 420
tagtccaaaa ttacaagtaa tcaagggtca ttatgggtta ggcattaatg tttctatctg 480
attttgtgca aaagcttcaa attaaaacag 510

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<210> 1514
<211> 511
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 472
<223> n = A,T,C or G

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<400> 1514
ctgggagatca ggaatagaac ctttccaaga tatlcataata ttttctttat aggaacactg 60
agtaatggca agaataatttt gagcttttcc atgggttaaga gcgatagtct cagaggctgg 120
agaaaatggt cattctgctc agtgatccag gagtgtgagg acagttagctt cctttccacg 180
tccacaagac aatgacagat gtgtttcctt ctttgccctt tctagggatc tttctagggg 240
tgttgattct ctcacaatat ttcaatgtcc cattttctgtg tttcttctcc ctccaggggc 300
tgatttacga ttacatgagt cttgtcacia taatttcctc ctttaacatc aaggacaagt 360
tgatcactga gataagagct gatagttcca tttttattca gtctccactt ctgcctgaat 420
tgcccatggt cagtccatag agctacttta gctccagggtg tgggtcccggc cnccatcaca 480
tcaagaactg gtttccactg gcttggatt a 511

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<210> 1515
<211> 176
<212> DNA
<213> Homo sapiens

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<400> 1515
aaaggggaag gkgaractta aaagtattcc caactagatt atctacacca atacattgga 60
actctatatt ttgctttcat tttgtcttaa aaaaatgaaa tagcaacgct ctatcagtca 120
cacagaggac atgcarattt agcagtattg atattatact ctatcttggt ggattt 176

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<210> 1516
<211> 309
<212> DNA
<213> Homo sapiens

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<400> 1516
ctggggaaaa ccgtgcatta cctgcccac cgtttcatcg accagctcag caaccgcgtg 60
aaggacctga tggtcataaa ccgctccacc accgagctgc cctcaccgt gtcctacgac 120
aaggtctcac tggggcggtt gcgcttctgg atccacatgc aggacaccgt gtactccctg 180
cagcagttcg ggttttcaga gaaagatgct gatgagggtga aaggaatttt ttagatatac 240
aacttatact tcctggcgct gaccttcttt gtcgcagcgt tccatcttct ctttgatttc 300
ctggccttt 309

```

```

<210> 1517
<211> 182
<212> DNA
<213> Homo sapiens

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<400> 1517
 ccaacatcta attttttttac tttttaatta tagctgttgt gactgatgtg agatggcato 60
 ttactgtggt ttttgcttgc atttatztat ttgatgatta gtaaggatga gtgttttttc 120
 atatacttga gtgtcttctt ttgagaaaat atctgttcat gtcctttgcc ttttcttgat 180
 tt 182

<210> 1518
 <211> 548
 <212> DNA
 <213> Homo sapiens

<400> 1518
 cctgagggag agggaaaagc ggataccac ctgtgtcgtc gtttgcgtgc caagtccagg 60
 aacagtccat acagccctgc tgcacccac gacgtgtca caaagcagga gttcatccga 120
 ggccaagggt ttgtcatgag aatattcgtt aaagtaggga cgctgacttt gttcttgggc 180
 agattctctt cctgtggagt atccagcctg tttgcctagt tttcctgttc ttctgggggc 240
 tgatctctat ctgttttact gcagtccagt taccaaagtg gtataagtaa aattgaaaga 300
 attctaaata ccttttcccc ccacgttagc tgcctcacgt taatgtgggc ttacggctctg 360
 caaataagtg ttttgatgat ttggcgactg cagttaccca tactagctct cctaccactc 420
 actactgaca gttaattatt atogaatata cccccacca gggtgagtta taagttatac 480
 caggtgtttt ggtaataaat actaatgcaa ttaatttact ggttactctc tcactctaaa 540
 gtaatcag 548

<210> 1519
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 1519
 ctggtgaagg acggcttcct ggtggaagtg tcagagagct cccggaagct gcggcacgtc 60
 ttctctttta cagatgtcct actgtgtgcc aagctgaaga agacctctgc agggaaagcac 120
 cagcagtatg actgtaagtg gtacatcccc ctggcgacc tgggtgtttcc atcccccgag 180
 gaatctgagg ccagccccc ggtgcacccc ttcccagacc atgagctgga ggacatgaag 240
 atgaagatct ctgccctcaa gagtgaatc cagaaggaga aagccaacaa aggccagagc 300
 cgggccatcg agcgctgaa gaagaagatg tttgagaatg agttcctgct gctgctcaac 360
 tccccacaa tcccgttcag gatccacaat cggaatggaa agagttacct gttcctactt 420
 gtctctggac tacgagaggt cagagtggga gagaagcaat ttcagaaact acagaagaaa 480
 ggatcttcag g 491

<210> 1520
 <211> 169
 <212> DNA
 <213> Homo sapiens

<400> 1520
 ctggtactgt cgatttggaa agctggctgg aaaaaactta ttcattgaagg ggctgatggt 60
 gtgggacagg gccaggattc ccagcacgaa gaaatacatg gacagcagga ggttgatgta 120
 ctctgaggag aatattttga aaaagaggta gagccccaag agtgtgcag 169

<210> 1521
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 1521
aggacgacgc tgtcrgargc agggagagca aattaccaca gcttcttggc ccagttctgc 60
ccttcttttg tttgggattg cactggggcca tcagctcatg ccaggctatg ggggcagcca 120
gttggcattg ctccccagac tgaacagaaa cctggccgcc ggatgggacc tcctttggca 180
cagacttgac tgtgtaactg cataaactgc agtagcatca ttgccctaga tgccccagga 240
gacctggcac catgaggatt acagacagtg gaatcttact gtcctctgga cag 293

<210> 1522
<211> 386
<212> DNA
<213> Homo sapiens

<400> 1522
ccacgtggga ctttgaagac agcacaacac agtccttccg ctggcatccg ctccggggcca 60
aggcggagaa atacgaagac agcgttctct agagtaatgg agagctcaca gtccggggcta 120
agctggttct cccttcacgg cccagaaaaac tccaagaggc tcaagaaggg acagatcagc 180
catcacttca tgggtcaactt tggttggttag tgctaggagc caagaattta cctgtgcggc 240
cagatggcac cttgaactca tttgttaagg gctgtctcac tctgccagac caacaaaaaac 300
tgagactgaa gtcgccagtc ctgaggaagc aggcttgccc ccagtggaaa cactcatttg 360
tcttcagtgg cgtaacccca gctcag 386

<210> 1523
<211> 178
<212> DNA
<213> Homo sapiens

<400> 1523
aaaaagccta tcccatactg aattgtggga acctatgaag tgtctcttaa tgtcaattaa 60
aagtaacagt ggctgcagat attgatttct gaaagtacat gagaatttgt ctctaactat 120
ggttgaaaca acaaaaccaa atctgaatca ggtagaggtc taccagacac aaactctg 178

<210> 1524
<211> 319
<212> DNA
<213> Homo sapiens

<400> 1524
wycacagcwg aaatggggca ctgaagtgtg gagscacaka atgcggggagg gcagaaccac 60
agacaggagg ctgagattga cctcctgagt gcaagctggg ctccccttca cctcctgcac 120
cctacgcaga tgggtgcttac cataggattg ccgtaaaaca gagacacgca ccagcgagaa 180
actttagccc ttagtatccc atcctcagga cagaatcact cttaaactatg ttgaaatata 240
tctgcttaga gcttttctat gtgtctatat aatgtatgca taatatacaa ttagaagcat 300
gtgattttat aacattttt 319

<210> 1525
<211> 467
<212> DNA
<213> Homo sapiens

<400> 1525
ccagactaga cagagatcag gtcctcaggg gagcttccga gcttcagcaa agcccacagg 60
tagctctgcg aactcagaat gctaccctac cttccctgca ggccgctgtt catgtctgga 120
ctcctggggg cgctatttaa tggttacccc catctccagt gccccctcca aggctgtgca 180
gtgtcttggg gctctcaggg ccaacatcga agagatgggg gccacctctt aacacctggc 240

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aacagtctcc cctcatcctg attcctgaca acagacaaaa caccggtttc taggggtttat 300
ctgtttgttt tttgagttga gggttcctca gggccttggc attgctagtg atgggtccctt 360
ttgctgtgtg agaaccacct caacccttc ctcctccctc tggggatgaa gtgggagtat 420
ttggctcccc atttttgaca aaagggtcga gtgcaggag gtggagg 467

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<210> 1526
<211> 439
<212> DNA
<213> Homo sapiens

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<400> 1526
aaactgttta ctggagaaaa tcctcgctca tgtccattta ttgttttttt ctgtactgtg 60
atttgtttca agcttaggaa aactagtata ttagagtatg ttctaggaaa ttaaaagatc 120
tggttagagt aaaaagttct ttttaagggt cttaactaat tttttcacia ctaagaaaaat 180
aaatgaagta ttcttaggct gaaattcatc ttattttatc ataaattaga ttgtaggggc 240
agcctacatt tttgtgtatg tgtttttatt tcttaaataga ttgtgtgagc ctggtgacat 300
tttatggttc ttgtgatcta aactgttttt ccaattcaca tcttttgtcg tgaagtgata 360
ttatactaga gtactgtttg cattgtaaaa atgctttgct ggtgctctgg cattttgtct 420
ttatctcatc acctaattt 439

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<210> 1527
<211> 609
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 582
<223> n = A,T,C or G

```

```

<400> 1527
ctggagaact tgggctccat taggtgcaat cgttggagta attagcccat cttttacatt 60
tcttgccaca aaatctcgaa gagctgccat ttcagggtcg gacagtgaat acacatgtcc 120
actgggaata ctgtgtgctc caggatatcat ttctatgtga gggtaacca ggcggtgatc 180
tggttagacg tgctcatcta ctggagtgtg cacattctgg acatagtaat acctcactgg 240
ttggtaaaact ctgtatccat ctactggata atagagtggc ggttgtggtg ctggtgggtg 300
gagcgatggt ggtattggag aatacatccg gcagtggtag cggcagtatt cagaatcaaa 360
gacgatagat cgagtgtctc atgtgatatt gggatcatgt gtgctcagcc agcgaacccc 420
taggacgaca gggaagaatg gagactgagt cacatcaaat gacagcacct ctcggtgatc 480
tcccagggtc actatcaggt cgtgagtttc gtggacaact gggcccgatg ctatggggcg 540
cccatcaatt gcttcacaaa gtattggacc cgcccgggag gncgctcgca agggccgaaa 600
ttccagcac 609

```

```

<210> 1528
<211> 393
<212> DNA
<213> Homo sapiens

```

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<400> 1528
tgatgtaatg aattcatatt tattgataca gaaaaatatg atataatcca tctaaaaagc 60
aagttacaaa acagtgtaca gtgtaccata gtacctatga acacaattag tgaagtaatt 120
tgcagagcta taataccaaa tcagaaatta ttttgtaat gaatttatga ttttctcgt 180
tttctgattt tttccatgat ctcatatact ttattctcag aaaacaaaag acaaaacccc 240
acacatacac aaaaataaac gagtaacttc ttacaaccc cagaggctaa gtcagtggga 300

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aaagagggaa atgaatggtt atgagcataa acacagggac aaataaaaaga agtttggagc 360
acagagaaca attcacaaat cagaagtcac ttt 393

<210> 1529
<211> 143
<212> DNA
<213> Homo sapiens

<400> 1529
atccgataga atccagttca atgaccttca gtctttactc tgtgcaactc ttcagaatgt 60
tcttcggaaa gtgcaacatc aagatgcttt gcagatctct gatgtgggta tggcctccct 120
gttaaggatg ttccaaagca cag 143

<210> 1530
<211> 636
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 330, 504, 583, 591, 625
<223> n = A,T,C or G

<400> 1530
gtggagaagc ggcttggtcg ggggtggtct cgtgggggtcc tgcctgttta gtcgctttca 60
gggttcttga gccccttcac gaccgtcacc atggaagtgt caccattgca gcctgtaaat 120
gaaaatatgc aagtcaacaa aataaaagaaa aatgaagatg ctaagaaaag actgtctgtt 180
gaaagaatct atcaaaaagaa aacacaattg gaacatatct tgcctcgccc agacacctac 240
attggttctg tggaattagt gaccagcaa atgtgggttt acgatgaaga tgttggcatt 300
aactataggg aagtcacttt tgttcctggn ttgtacaaaa tctttgatga gattctagtt 360
aatgctgcgg acaacaaaca aagggaccca aaaatgtctt gtattagagt ccaattgatc 420
cggaaaacaa tttaattagt atatggaata atggaaaagg tattcctgtt gttgaacaca 480
aagctgaaaa gatgtatgtc ccmnctctca tatttggaac gtccttaact tctagtaact 540
atgatgatga tgaaaagaaa gggacaggtg gtcsaaatgg ctnttgagcc naattgtgta 600
acatatccag tacccaattt actgngggaa acagcc 636

<210> 1531
<211> 194
<212> DNA
<213> Homo sapiens

<400> 1531
aaaaggcaga gcattctttt ttccggcaatt ttgataagca aggtgtagat ttacattttt 60
gtccttgctc ccaacgaaat ggataaaca aaataactta ccatctactc atggaatgtt 120
gttggtgtag ccagtcctgaa ggccacctt aattttttata taactgtctt tagctcttct 180
tttgacaggg cagg 194

<210> 1532
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1532
ccatacaagg taattttgac aggttcctgg gattaggaca tgggcatctt gggaggccac 60

tactggccta ccacaactgg gcagcaaaac tattacaccc tccggtataa tagttttgg 120
 gtttcaatga ctgggaggaa aaggggttga attttttgct ttgggggtccc tcttaacctt 180
 gtatttttaa ggtctgggac tcaccaaccc tccccttcca accagagaaa ctactgcag 240
 tatctccttg aaagtctggt gacgagtctg tctaagtgtt ggtgagaggg acaggaccaa 300

<210> 1533
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400> 1533
 gttcctttgc accctgtaga tgttctagga tagttgatgc atgttactaa attacgtatg 60
 caagtctgtg agtgcgtctg aggggacatc gccaaggact gactgagaca cgatgccgag 120
 acctcaagcc ctgaggggca gtcccaaaac ccttacagtg aagatgttta ctattgccc 180
 ccacctctgg tccacactag aaagaagctc gcccacctc cacctgtgag atccgtgaat 240
 tctcggaatg gcaggggaag ccttgcaacta ggttgacagag aagcatcctc cacatcctgt 300
 gtcagaaacc ctggtctccg tggcacttgt aactcaccgt gctgtcttct ggtctgtgtg 360
 tgttcttcaa gccagctcta ggcttcaggc cgagccagggt tcacactcag aaagatgtct 420
 ccccatcccc attcggggct gacgatgggg ggctgatggc tgcccctgcg tggcctgagt 480
 cctggtcctt ctgaggcagt tgacggggca gtcagatttt t 521

<210> 1534
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 1534
 actcaagaag atgtatttaa tgcttgacaa taagagaaag gaagtagttc aaaaaataat 60
 agagttgctg aatgtcactg aacttaccca gaatgccctg attaattgat aactagtggg 120
 gtggaagcgg agacagcaga gcgcctgtat tggggggccg cccaatgctt gcttgatca 180
 g 181

<210> 1535
 <211> 544
 <212> DNA
 <213> Homo sapiens

<400> 1535
 aaaataggac actaaatcct actctgaaag gtggtttgat caggactaaa gagaatgtat 60
 gtagagtgtt ttgtgcaacg aattgtgggg agcttggaac caataaggta gccagaatta 120
 cccacaccat catcatcttc accaccatca ttattgttat cgacatattc caatacactt 180
 ctgaagggct ggaagagaga aatatgtttg tgcagacagg cggcagcagt atttgatcca 240
 ccaccacagc tccaccgctt gggggcagta ctgatccacc tgtgctcccc tccctgcccc 300
 agcctggaaa gctaatttca gactcaaaaa aatcaagtac agagcagcgc acccactcca 360
 atgagtcac cccgcccact ctagacaaca gcatgtcat gactcaaact atcttcgtga 420
 atggttcaaa atatcaagaa ttggtttcca tagtttcttg actaaccaga cacaaaattt 480
 cccctacatg cagagattca tgtctcaact tcaactgtac attaaactca accgggaaac 540
 tttt 544

<210> 1536
 <211> 591
 <212> DNA
 <213> Homo sapiens

<400> 1536
 ctgagtttaag atgggtaaagc caatattatt ttaggaggaa agaggacgaa ggccaatgaa 60
 ccaacatctg cctgctatct ggtgcacac ccaaggtgac caatggctgg gcacaaataa 120
 acttctcttt tgctagccac agagttgctc actgtggcaa gcctgagctg gtcagaacac 180
 ctgtgtgtgt gttcctgata cactactaacc acaataagca agtctgcaca catctctatg 240
 agcccatatgc aaagacaaga cattcccaaa gatcagtcac tagagtgcac caacgaaatt 300
 caagatttga ccaaaacaga cctgtctgcc tcctaaattg ccaattgcct ctcaaaaact 360
 tacagaaaaa gggacattat aagaattcat agaggagag aagaaaaagc tgctactcct 420
 agtcattagt acaatgtgct gtgttaatta gatacctcta tataaattag aaaaagtgtg 480
 ttacttgcac gcttcaataa aatgaatact gagtgtcgta gtgttagatc tgtacagata 540
 taaatttttt gcagctatat aaaagtgtat aagatgggct tttgccattt t 591

<210> 1537
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 1537
 acttcggggc tccctctccc tgtgcagacc ggttgaataa atgataaaat tactgtttgt 60
 gtccctctgtg aagtctggat taatggaaaa aaggatttgt gaggctagtc ttaggtgtga 120
 gccaatctgg tgtgtctttt gtgtcttctt gtatggttcc atgataagga ggaatacctt 180
 aggatagaat gcaagcctag gaccccataa gcctgttgtt caagccaacc agcaaactgg 240
 gcagtaacaa acattgctgc aggtttccat tttgttttac gtccctggga gcttgacctt 300
 gtaaccacgt ggcagtacct tcttttggcc tctgccattt t 341

<210> 1538
 <211> 363
 <212> DNA
 <213> Homo sapiens

<400> 1538
 ggacctgact ttgagtccat cagagacaaa gtgagtgaga tgcacatata gtgtttccag 60
 acctgactca gcccatctgt ctgttaggaa actttatgaa gacgcccccc agaattaaac 120
 cctaattcaa atgtctcact ctgaatagag accttctgaa ataactttgg tatagagacc 180
 cagacacgtg ccttttgcct taaaataaaa atatttagcc catgttgttt tatgtatctg 240
 tctttcagtt agttttgaag gccgcacgg aaaagtgggg cctgtgcacc tgaaaagaaa 300
 tgtgtatgtt atgtggttgt tggctcttcc tactagagtt atcttgataa ttgtgaagag 360
 tgg 363

<210> 1539
 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 1539
 ctgtgggggt ccttccagag aggagctgag atacgcctac ctggaggggc ccttgggcct 60
 ggaggggctc ctgagtgatg ctgggtgaag tgttttcaga ggaccagggt tgaggttggg 120
 ggcatctcat ccagaccctg ccggcatctg cccagaaacc caagggcccc tcttctctcc 180
 ctctcaatg gaaatgctgg agatgtcctc agtcaccctc tgagcactca cacatcacc 240
 cttatttggg aatttttctc actctaacct tccttctgct tgcaccttct gccccatccc 300
 caggctctgg cctctctctc tcctcttcta ccctttagca ggtaatgact cagttccac 360
 tgaggagcca g 371

<210> 1540
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 1540
 ctkgacgtga tggagcaggt gagcagtgcc cgtggggcctt gccagagggc tgaggaggac 60
 cctctctaac cagctccctg tcccccttct tctgtagctt gagttgaaga agacactgct 120
 ggacaggatg gttcacctgc tgagtcgagg ttatgtactt cctggtgtca gttacatccg 180
 aaagtgtctg gagaagctgg aactgacat ttcaactcatt cgctattttg tcaactgaggt 240
 cagcaatgca cgtttgggtt catgtttcat actgtttaca ctgacactgc cttttttggc 300
 ttaatttagt tcatttttga cctaactgag aactgtgctt tctgatgtag tgatgacaat 360
 gacagatact cgtttaccaa aaagcacctt ctgcctgcag cag 403

<210> 1541
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 1541
 taaaacaaaa ctaaagaaga gaaaatatat tctcgtaaat tatctgaact taaaagatgg 60
 aagcctggag atagatttgt gataagccat tgctgagtag atcctagagt tcttgataat 120
 ttcagttggg taaattacaa tagtttgcta tttcctccct cacattttat gttctacagt 180
 atctagctgc ttgggttttc ctgtatacca tggggcttct gtcatctggg ctttactcag 240
 tggcatattc cctctgccta aaactctcct cccctctcca ccttagaagt agcttttcct 300
 agaacgggtt tcccagggtt tcacctaaagg tgatagtaca atctacaggg acctgcacat 360
 gaagaccttt gcatacatgc cagggaagttg gactttatct ttggaaaaag ggagcctttg 420
 aaggtttt 428

<210> 1542
 <211> 345
 <212> DNA
 <213> Homo sapiens

<400> 1542
 awttaaatgc ttagcaagca gcaattccac gatgggtcaaa ttcctaatat gagagaagta 60
 gaaataggaa aaatagggtc ccctgatact tatgttttca ttttgcttaa tatacgtttg 120
 tatattttcaa tataacatta atagatatcg tgtcccttca cagttctaaa gtagtaagca 180
 aaatgaatta atttaaccta tgcaattaaa accaatttgg aagaatattg aggtagcaca 240
 ctgttacggg aattagtatg actcagtaat gcagttgaaa gttagtggct cctaataccag 300
 tatgaatcat ggagatgaga gaaatgatta gataaagaga tatatt 345

<210> 1543
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 1543
 aatattgaat ttctagaagc agtatattgc ttactgcttc ttaattacgt tatagatgag 60
 gtggaaatga taaaaactaa agaagcaaga ttaattctta acacacattt caggctgttg 120
 taaaagaata aacaatgctt catataaact tctagcaaat gacttcctaa tgaggctcttg 180
 aaacagtctt tagggcacgg aatgtcatca cataattaag cagctttaag cttttattaa 240
 aaggcttaaa gtcgcaaaca atgaaatctg aaacaaactg taccatatta aactttttga 300
 tgatattttca aattcagtaa aagaaaaaaa ggatggttca gaataacatc acgtatttcta 360

atcctgaaac acataacaaa tgcattctgaa acagcaattc ttaaaaaggt tttgcccttt 420

<210> 1544

<211> 306

<212> DNA

<213> Homo sapiens

<400> 1544

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ctggcttcac tctactccc tctctgctcg cagcacgctg gccgccagct ctttgatgtg 60
ttcccaggcc cgctgcacat gggcagattc caccgtgcga gaacagatgg caaagcgcag 120
gacaaaacttg tccctgaggt gacatggaac caagtggatt tttttggcac tgtttattct 180
ttgcagaaga gcttcattca ctttgttgga acccttttagc cgaaagcaga caagccccag 240
aatgacttcc acacagattt caaagcgggg atcctggcgc accagtgact caaactcatg 300
ggacag                                           306
```

<210> 1545

<211> 110

<212> DNA

<213> Homo sapiens

<400> 1545

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ctgctccggg ccttcatect gaagatcagc gtgtgcatg ccgtcctgga ccacaacccc 60
ccaggctgta ccttcacagt cctggcgcac acgagagaag ccgccactcg           110
```

<210> 1546

<211> 239

<212> DNA

<213> Homo sapiens

<400> 1546

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aaagaaatat gacacggtgt tggatattct aagagacttt tttgaactca gacttaaata 60
ttatggatta agaaaagaat ggctcctagg aatgcttggg gctgaatctg ctaaactgaa 120
taatcaggct cgctttatct tagagaaaat agatggcaaa ataatcattg aaaataagcc 180
taagaaagaa ttaattaaag ttctgattca gaggggatat gattcggatc ctgtgaagg 239
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<210> 1547

<211> 527

<212> DNA

<213> Homo sapiens

<400> 1547

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aaaaattcca gttgagattt ttctggttct ctgtataaag attgactgga acatatacat 60
tttggggttt atgtttggag actttggctc ttattcaaac cttccatttt agttggcttc 120
ttctgacagt gcttcagcat ggaagcaagg agggggcctc attactgcca ggtaagggtg 180
aaaatctagt ttctctgctg ggtctccatt gtcactaaga aaggaatggc tctgttattg 240
ctgggcaggg ttggctgttc caactgataa tcctatgtct gggagggcta ggagtgcctc 300
cttgetgttc ctcttgttgt ttccactgac agtggagtgg ccttgttact gctgggtggg 360
ggttgagagt tctggctctc tactaggag gacacaacct cagtgtagag aggcggggat 420
accttgttac tgtcaggcac aggcggaggt ccagtctcct tactccacct acccaacagg 480
gtagcttgag gcacttcatt attgcctagt gagagtggaa gtttagg           527
```

<210> 1548

<211> 333

<212> DNA
<213> Homo sapiens

<400> 1548
ctgtgggagg agctagtagg ggcggggcta cgtgattgac acttctctcc tcagacttca 60
agggctacca ctggaccctt cccctgtctt gaaccctgag ccggcaccat gcacggacgc 120
ctgaaggtga agacgtcaga agagcaggcg gagggcaaaa ggctagagcg agagcagaag 180
ctgaagctat accagtcagc caccagggcc gtattccaga agcgccaggc tggtagctg 240
gatgagtccg tgctggaact gacaagccag attctgggag ccaaccctga ttttgccacc 300
ctctggaact gccgacgaga ggtgctccag cag 333

<210> 1549
<211> 438
<212> DNA
<213> Homo sapiens

<400> 1549
ttgacagtgt acgctggagc aggttccagg gtggggctgc cctgccgcct gcctgctggt 60
gtggggaccc ggtctttcct cactgccaaag tggactcctc ctgggggagg ccctgacctc 120
ctggtgactg gagacaatgg cgactttacc cttcgactag aggatgtgag ccaggcccag 180
gctgggacct acacctgccca tatccatctg caggaacagc agctcaatgc cactgtcaca 240
ttggcaatca tcacagtgc tcccaaattcc tttgggtcac ctggatccct ggggaagctg 300
ctttgtgagg tgactccagt atctggacaa gaacgctttg tgtggagctc tctggacacc 360
ccatcccaga ggagttttctc aggaccttgg ctggaggcac aggaggccca gtcctttcc 420
cagccttggc aatgccag 438

<210> 1550
<211> 204
<212> DNA
<213> Homo sapiens

<400> 1550
aaaactaagt tattccaaca ctaaaagcat acaacagcat gccaacagta atatattatt 60
ctccaagact ttacctatgt aagtgttcaa aactotgcag cattaaacaa cgtgtatgca 120
aattgttatg gatacatctc agaattctaa aaatcaggca agtgcttaaa aggccaacgg 180
tccaagggat tacatctgca gttt 204

<210> 1551
<211> 132
<212> DNA
<213> Homo sapiens

<400> 1551
ccatctgtgg atttgtctgt gcacctattg gctcttctag ctgactcttc tggttgggct 60
tagagtctgc ctgtttctgc tagctccgtg tttagtccac ttgggtcctc agctctgcca 120
agctgagcct gg 132

<210> 1552
<211> 433
<212> DNA
<213> Homo sapiens

<400> 1552
ctgaatagag gtcaacacag ttgcgatgtt gagggatggt ctccaagcac cttttggtgg 60

```

caatttgaga acatccagac aaatccttcc agcagaatca atgtttggat gataaattgg 120
agtgagaaat cggatctgag gaggttcaaa tgggtacctc tcaggaatga taacttctag 180
cttaaaaaca cttttctcat aagggtgtgtt ggctccacct aatatttgag ctgcgcaggtc 240
atccatttgg tctttatctt gccaacatgt gatgcctggg ggtggctctg tggctaacat 300
gtgcagctct ctcttcagac gtgaagctct ctgcatgata cccaagtaga aggaaccaca 360
cacagttcac tgctccacac taagagctgs ctgggatgca ctgagctgac acccctcaca 420
acgcagcaac gcg                                     433

```

<210> 1553

<211> 316

<212> DNA

<213> Homo sapiens

<400> 1553

```

gagcaaggtc tgctgagaac agaccagtc cctgaggaag gagaagatgt tgctgccacg 60
atcagtgcc aagagaccct ctcggaagag gagcaggaag agctaagaag agaacttgca 120
aaggtagaag aagaaatcca gactctgtct caagtgttag cagcaaaaaga gaagcatcta 180
gcagagatca agcggaaact tggaatcaat tctctacagg aactaaaaca gaacattgcc 240
aaaggggtggc aagacgtgac agcaacatct gcttacaaga agacatctga aaccttatcc 300
caggctggac agaagg                                     316

```

<210> 1554

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 517, 532

<223> n = A,T,C or G

<400> 1554

```

aaaggaatta ttctggcagc acatgtagta ttcttggatg atcttgcctgc tcttatttct 60
ccttttgtgt gtgtgtgtgt gtgtgtggct atgggttttc atttgtaact ccatctgctt 120
argagagtgg gctctctata agggaacctg ctgtaaaact cattgcagca aggatgtaga 180
gagaaatagg acttaattcc actaggggct ctcatctcac accttaagga ggagatttct 240
agaaaaactg ggccagattt tctttgytct ccatcathtt aatgtggcag gctgytcagt 300
tttcttactc ttacctatgw gatatttctt cgtaacgtgt ccaaaaagaa aaaagaccca 360
atcagtgtct cttgactttg ttctttgata cctcagtttc ttcttgattt cagcatgtgt 420
cgggttccct aattttgggt atgagtttag aaatttaacc attgtgtttg tgccctaccc 480
aggggactcc ccagtttctg acttgaagta gactganaag aatccacgag gngctathtt 540
gg                                     542

```

<210> 1555

<211> 117

<212> DNA

<213> Homo sapiens

<400> 1555

```

ctgtctgtgg cttcccatgt ctttctccaa agttatccag agggttgtga ttttgtctgc 60
ttagtatctc atcaacaaag aaatattatt tgctaattaa aaagttaatc ttcatgg 117

```

<210> 1556

<211> 111

<212> DNA
<213> Homo sapiens

<400> 1556
ctgctgcagc cgcagtttct catccggagt gtaccccgtc atgtcgccgc tggtagcaac 60
gcaaaaggac acggcgacacc ctccaactac ggactagtta ctttaagcgcg c 111

<210> 1557
<211> 454
<212> DNA
<213> Homo sapiens

<400> 1557
cgaggactga tctcttagta ctaagtgact ggggatatta caytarccaa cattgggtga 60
tacatacctk artmatcatw tgaggaygca gtgataarsg satawwmywg tatsatccya 120
acaygyacta rctcaaaaac tagtgggggc ggattgatct cctgtgggac wkacacatgsc 180
ctgaaagtga acatgmtcmt ratcacctgc agrgcttgag atggyccmca tkgcwgcact 240
ccgccccyac aktttttgaw tcwacwggag ttaggswgmt yctwgawtta kcctttctac 300
ctgcctccyg akagrwcgcw wygastwggg kgaatssatt gackkctaag rttakacttc 360
cactaactct gtacgmtgar ctcttactaa tattcgttac cacgctaaga ggctctgctc 420
caggatctca tcgcgactgg aaggaacctc cagc 454

<210> 1558
<211> 404
<212> DNA
<213> Homo sapiens

<400> 1558
aaagaagtgc agttgatatc taattttacac agtgaaacta gtgatagaaa ataactaatg 60
aaaaaaaaatc agagactggg ttccaattga ttgacaccta gatctgtcag cctctcttaa 120
agaaagggga aggagaaaaa aaatctcatc atggaaggca gacaagagtc cacctgacag 180
agggtggaatc tgatggaatc tgacccatt tcatgataaa cgagaggaaa cataaatgcc 240
atctcaataa ctaaagcgat gtagtgtagc atgagtgact caatgcaaat tcacagagga 300
aaagaagtta cggcttagga agtaggacaa taaatacaaa tatttcatct tatttaaatg 360
tgcattgactt cagtgaact accctttgca atgcaataaa tttt 404

<210> 1559
<211> 266
<212> DNA
<213> Homo sapiens

<400> 1559
aaactatcag aagagatgag aggggaattga tctacaatac tagaatttta tgtgcagaca 60
aatccacatc tggaaatgaa atcacagtaa gatattttcg ggagacaaaa acataaaaaat 120
tgctagaata aatttgccac gaacgagtaa ctagacatta gaaattgact acatagatat 180
agtaatacta aaagtgtcga aaacaagcaa acacaacaca cacattctca attctttttt 240
tttctatcaa atatcttcaa cttttt 266

<210> 1560
<211> 142
<212> DNA
<213> Homo sapiens

<400> 1560

```

aaaactcagt atcttctgaa ccagaggcat ttctgattag cccttcctta cctattttcc 60
tagtatcact ctttaatcag cttggggagg tggcagcatt tcatggcctc cgtagtaact 120
cacaatgctt cctggggtat tt                                     142

```

```

<210> 1561
<211> 381
<212> DNA
<213> Homo sapiens

```

```

<400> 1561
aaacactaaa tgaagcttct cacaatttct aattataaac aaaaggctga aaacagtatg 60
ggaaacaaaag tttcaaaaca aagaaaagtt gagtaaaagg tgccccctct atggctcatc 120
tgaaagaaac attttactca gagaggcaaa catttctgat ctaggagtaa gtttccact 180
cactttgcaa ggaccctctc attctgcaga aagacctaca agtctttctg gtctcaattg 240
caaagtacgt gaaaatgtgt atgaaagatc taaaagctaa atattagaat aaggctaatt 300
gaaatcaaaa ttgtgtgctg gtctaaatat acatcttcgg cttcttcctt ttagtaagt 360
atTTTTattt cagatgtatt t                                     381

```

```

<210> 1562
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<400> 1562
ggagaaagga gaaccgtaca tgagcattca gcctgctgaa gatccagatg attatgatga 60
tggcttttca atgaagcata cagccaccgc ccgtttccag agaaaccacc gcctcatcag 120
tgaaattctt agtgagagtg tgggtgccaga cgttcgggtca gttgtcacia cagctagaat 180
gcaggctctc aaacggcagg tccagtcctt aatggttcat cagcgaaaac tagaagctga 240
acttcttcaa atagaggaac gacaccagga gaagaagagg aaattcctgg aaagcacaga 300
ttcattttaac aatgaactta aaagggtgtg cggctctgaaa gtagaagtgg atatggagaa 360
aattgcag                                     368

```

```

<210> 1563
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 32, 332, 333, 346, 361, 381
<223> n = A,T,C or G

```

```

<400> 1563
accwtrsaac tgcawttatt acctatgcta gntttggata agaamtgkyc wtayatgtga 60
kagcaagagg gcacyaraws wrcttsaaca ccaawgggcm ktactwtata kawmcgawgg 120
gcatgctwtm atgaccaact grmtgactgt ttgagaatgg acaargtget agcgctaaac 180
ctgtccttct tgaacrtggc ttgactaacg kcwttgatac gtttccttca kkasaatact 240
attactasac tttgktgctt gattaccgac tgggtgactc ttgmtctcac ctatgargac 300
agtgtctttac acaaactcrt akggaaaatt gnntttgtmc tgtganctac tcatcygaga 360
notccctaag ggctaacatt ncatgtttcc gtctcactag ctacacgttc t                                     411

```

```

<210> 1564
<211> 602
<212> DNA

```

<213> Homo sapiens

<220>

<221> misc_feature

<222> 597, 598

<223> n = A,T,C or G

<400> 1564

```
ctagttttaa gatcagagtt cactttcttt ggactctgcc tatattttct tacctgaact 60
tttgcaagtt ttcaggtaaa cctcagctca ggactgctat ttagctcctc ttaagaagat 120
taaaagagaa aaaaaaaggc ccttttataa atagtataca cttattttta gtgaaaagca 180
gagaatttta tttatagcta atttttagcta tctgtaacca agatggatgc aaagaggcta 240
gtgcctcaga gagaactgta cgggggttgt gactggaaaa agttacgttc ccattctaata 300
taatgccctt tcttatttaa aaacaaaacc aaatgatatc taagtagttc tcagcaataa 360
taataatgac gataatactt cttttccaca tctcattgtc actgacattt aatgggtactg 420
tatattactt aatttattga agattattat ttatgtctta ttaggacact atgggtataa 480
actgtgttta agcctacaat cattgatatt tttttgttat gtcacaatca gtatattttc 540
tttgggggta cctctctgaa tattatgtaa acaatccaaa gaaatgattg tattaannat 600
tt 602
```

<210> 1565

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 214, 291, 295, 345, 375, 442

<223> n = A,T,C or G

<400> 1565

```
ctagtccagt gtggtggaat tcatccaggg ggctaccctt ggctctctgt tgccagtggg 60
catcatcgca gtgggtgtct tcctcttcct ggtggctttt gtgggctgct gcggggcctg 120
caaggagaac tattgtctta tgatcacgtt tgccatcttt ctgtctctta tcatgttggt 180
ggaggtggcc gcagccattg ctggctatgt gtnagagat aagggtgatg cagagtttaa 240
taacaacttc cggcagcaga tggagaatta cccgaaaaac aaccacactg nttcnatcct 300
ggacaggatg caggcagatt ttaagtgtct tggggctgct aactncacag attgggagaa 360
aatcccttcc atgtngaaga accgagtccc cgactcctgc tgcattaatg ttactgtggg 420
ctgtgggatt aatttcaacg anaaggcgat ccataaggag ggctgtgtgg aga 473
```

<210> 1566

<211> 53

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 15, 24, 28

<223> n = A,T,C or G

<400> 1566

```
ctagttatta atagnaatac attncggngt cattagttca tagcccatat atg 53
```

<210> 1567

<211> 136
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 91, 104, 117, 126
 <223> n = A,T,C or G

<400> 1567
 ttattgattt ttttttttca ctttcccat cacaactcaca cgcacgtca cactttttat 60
 ttgccataat gaaccgtcca gccctgtgg ngatctcta tganaacatg cgttttntga 120
 taactnacaa ccctac 136

<210> 1568
 <211> 192
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 16, 17, 48, 52, 57, 82, 91, 98, 109, 123, 151, 155, 162,
 166, 168
 <223> n = A,T,C or G

<400> 1568
 ttngtctgt gtgagnnggt tgaccttctt ccatccctg gtccttctt tnccttnccg 60
 aggcacagag agacagggca gnatccacgt ncccatntg gaggcagana aaagagaaag 120
 tgntttatat acggtactta ttaatatcc nttntaatt anaaantnaa acagttaatt 180
 taattaaaga gt 192

<210> 1569
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 358, 505, 511, 513, 547
 <223> n = A,T,C or G

<400> 1569
 ctagttctgt cccccagga gacctggtg tgtctgtgt agtggttgac cttoctccat 60
 cccctgggtc ttcccttccc ttcccgaggc acagagagac agggcaggat ccacgtgcc 120
 attgtggagg cagagaaaag agaaagtgtt ttatatacgg tacttattta atatcccttt 180
 ttaattagaa attaaaacag ttaatttaat taaagagtag ggtttttttt cagtattctt 240
 ggttaatat taatttcaac tttttatgag atgtatcttt tgctctctct tgctctctta 300
 tttgtaccgg tttttgtata taaaattcat gtttccaatc tctctctccc tgatcgngga 360
 cagtcactag cttatcttga acagatattt aattttgcta acactcagct ctgcccctccc 420
 cgatcccctg gctcccagc acacattcct ttgaaataag gtttcaatat acatctacat 480
 actatatata tatttggcaa cttgnatttg nngtatata tatatatata tgtttatgta 540
 tatatgngat tctgataaaa tagacattgc ttttc 575

<210> 1570

<211> 392
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 114, 374
 <223> n = A,T,C or G

<400> 1570
 ctagtccagn gtggtggaat tccgccgcca tcatgggtcg catgcatgct cccgggaagg 60
 gcctgtccca gtgggttta ccctatcgac gcagcgccc cacttggttg aagntgacat 120
 ctgacgacgt gaaggagcag atttacaac tggccaagaa gggccttact ccttcacaga 180
 tcggtgtaat cctgagagat tcacatggtg ttgcacaagt acgttttctg acaggcaata 240
 aaattttaag aattcttaag tctaaggagc ttgctcctga tcttcctgaa gatctctacc 300
 atttaattaa gaaagcagtt gctgttcgaa agcatcttga gaggaacaga aaggataagg 360
 atgctaaatt ccgntcgatt ctaatagaga gc 392

<210> 1571
 <211> 390
 <212> DNA
 <213> Homo sapiens

<400> 1571
 gaaggacgtt tgtgttggaa gccctggtat ccccggcact cctggatccc acggcctgcc 60
 aggcagggac gggagagatg gtgtcaaagg agaccctggc cctccgggcc ccatgggtcc 120
 acctggagaa atgccatgtc ctccctgaaa tgatgggctg cctggagccc ctggtatccc 180
 tggagagtgt ggagagaagg gggagcctgg cgagaggggc cctccagggc ttccagctca 240
 totagatgag gagctccaag ccacactcca cgactttaga catcaaattc tgcagacaag 300
 gggagccctc agtctgcagg gctccataat gacagtagga gagaaggtct tctccagcaa 360
 tgggcagctc atcacttttg atgccattca 390

<210> 1572
 <211> 383
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 368
 <223> n = A,T,C or G

<400> 1572
 ctgcagcttc tgctgctgag gccgggattg ctacgactgg gactgaaggt gaaagaggtg 60
 gaatccgaag tcctgggact gcgggatgct aaacattgaa agctgggtgt aggcactgca 120
 gggagagtgt ggaggtctga cagggttaga atatgtggga gggctgggct aggaatggcc 180
 ttggaggctg gcctgtgtgg atatggcacc aattctaccc tgctcctctt ttctttttcc 240
 cagactcaga cgatgccctg ctgaagatga ccatcagcca gcaagagttt ggccgcactg 300
 ggcttcctga cctaagcagt atgactgagg aagagcagat tgcttatgcc atgcagatgt 360
 ccctgcangg gagcagagtt tgg 383

<210> 1573
 <211> 149
 <212> DNA

<213> Homo sapiens

<400> 1573

```
cctccagagc ctctctagtg gcagagcagc tcacactccc tccgctggga acgatggctt 60
ctgcctagta cctatccttg tgtttctgat gcagtggtag cattgggtca agttctctcc 120
tgctgtggtc agagttgctt cgatgttg 149
```

<210> 1574

<211> 143

<212> DNA

<213> Homo sapiens

<400> 1574

```
ctgccaggct gaaaagaagc ctcagctccc acaccgccct cctcaccgcc cttcctcggg 60
agtcacttcc actggtggac caggggcccc cagccctgtg tcggccttgt ctgtctcagc 120
tcaaccacag tctgacacca gag 143
```

<210> 1575

<211> 112

<212> DNA

<213> Homo sapiens

<400> 1575

```
ctgcatccac cctctttcag ggggtagagc cactatactt ctcattgtaga tcagccacat 60
tgtcactgga gactcggatc cagccatcct cccgcacgtg gtagagggtg ac 112
```

<210> 1576

<211> 198

<212> DNA

<213> Homo sapiens

<400> 1576

```
ccagtatgtc cccaggatta tgtttggtga cccatctctg acagtttagag ccgatatcac 60
tggaagatat tcaaatcgtc tctatgctta cgaacctgca gatacagctc tgttgcttga 120
caacatgaag aaagctctca agttgctgaa gactgaattg taaagaaaaa aaatctccag 180
gcccttctgt ctgtcagg 198
```

<210> 1577

<211> 444

<212> DNA

<213> Homo sapiens

<400> 1577

```
cctgcctgga gcccagatc accccttcc actacaccac ttctgacgt gtcatttcca 60
ctgagaccgt cttcattgtg gagatctccc tgacatgcaa gaacagggtc cagaacatgg 120
ctctctatgc tgacgtcggg gaaaaacaat tccctgtcac tcgaggccag gatgtggggc 180
gtcatcagggt gtcttgagc ctggaccaca agagcgccca cgcaggcacc tatgagggtta 240
gattcttoga cgaggagtcc tacagcctcc tcaggaaggc tcagaggaat aacgaggaca 300
tttccatcat cccgcctctg tttacagtca gcgtggacca tcggggcact tggaaagggc 360
cctgggtgtc cactgagggt ctggctgcgg cgatcggcct tgtgatctac tacttggcct 420
tcagtgcgaa gagccacatc cagg 444
```

<210> 1578

<211> 294

<212> DNA
<213> Homo sapiens

<400> 1578
ccacaaagcc attgtatgta gcttttagctc agcgcaaaga agagcgccag gtcacactca 60
ctaaccagta tatgcagaga atggcaagtgt tacgagctgt gcccaaccct gtaatcaacc 120
cctaccagcc agcacctcct tcagggttact tcatggcagc tatcccacag actcagaacc 180
gtgctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240
ctcagggtgc cagacctcat ccattccaaa atatgcccg tgctatccgc ccag 294

<210> 1579
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 176, 181, 182, 248
<223> n = A,T,C or G

<400> 1579
ccacaaagcc attgtatgta gcttttagctc agcgcaaaga agagcgccag gtcacactca 60
ctaaccagta tatgcagaga atggcaagtgt tacgagctgt gcccaaccct gtaatcaacc 120
cctaccagcc agcacctcct tcagggttact tcatggcagc tatcccacag actcanaacc 180
nngctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240
ctcaggngnc cagacctcat ccattccaaa aatatgcccg gtgctatccg cccag 295

<210> 1580
<211> 166
<212> DNA
<213> Homo sapiens

<400> 1580
cttcttttatt ggggacatgt gggctggaac agcagatttc agctacatat atgaacaaat 60
cctttattat tattataatt atttttttgc gtgaaagtgt tacatattct ttcacttgta 120
tgtacagaga ggtttttctg aatattttatt ttaagggtta aatcac 166

<210> 1581
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 420
<223> n = A,T,C or G

<400> 1581
ctgaggcaac agaataaatg cagaggcatt acaatgaatc ccacttaata taaagaacta 60
tacagaccaa cacttctcta caaaattttt ttttcctcat tgccagttaa atacagagtt 120
ttactttcat agcttaacaa tgaagggtca tacactgaag ccaatacata tacctagcat 180
ttcagttctaa gcttgtccac gtacatagct gaagtcaatt acaagggttg gcttagaaat 240
gctaggggaa cttcttttga gtttttacag gtattaaaact tcatcttgca cactgaagtc 300
atcatacata caggggcaaaa tcagagcttt tatattttgcg tttattcttc atttaacttt 360

<210> 1586
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 1586
 cctccactgc cagcctatgg ttgttcgcca ccaagccagg agtgctgcac cgcccagtgg 60
 tccccctcgg gctccaggcc cccactgaga cccctctcgga ggcagaagca cttcaccct 120
 cagagtccta caagtccaac cagtggacct ggaattgg 158

<210> 1587
 <211> 85
 <212> DNA
 <213> Homo sapiens

<400> 1587
 ccaatgtaca tgggtggacta tgccggcctg aacgtgcagc tcccgggacc tcttaattac 60
 tagacctcag tactgaatca ggacc 85

<210> 1588
 <211> 369
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 363
 <223> n = A,T,C or G

<400> 1588
 ccaggctacc ttccactgag agacaggcag ggggacagggt gctaaggagc ctggcaggca 60
 gggctggcag gcccacatggc gcctgttcca gcagatgaca agcccaggctc agggtagagc 120
 gggcaggagg ggggacgagg gctcccacaa catgattttg tgtaaaatat ggcagcgaca 180
 cacgctcagg gccgggagggt ggggggttag gtggggacgg cggcaacatc gtgtaaaaaa 240
 gtgtcccaag tcccatagca aagagagctg tgaccgggtg ttcagagctt ctccagtaca 300
 agggggaaaag ccgcccggcg ggggcggcggt gcagggacat catttggttt cctgggtgctg 360
 tngtccga 369

<210> 1589
 <211> 361
 <212> DNA
 <213> Homo sapiens

<400> 1589
 ctgtagcttc tgtgggactt ccactgctca ggcgtcaggc tcagatagct gctggccgcg 60
 tacttggtgt tgctttgttt ggagggtgtg gtggtctcca ctccgcctt gacggggctg 120
 ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180
 agtgtggcct tgttggcttg aagctcctca gaggaggcg ggaacagagt gaccgagggg 240
 gcagccttg gctgaccag gacggtcagc ttggtccctc cgccgaacag taaaaggga 300
 ctcaggctgt tatcatagga ctggcagtaa taatcagcct catcttcagc ctggagccca 360
 g 361

<210> 1590
 <211> 434

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 397
<223> n = A,T,C or G

<400> 1590
ctggagaagg tgtgcagggg aaaccctgct gatgtcaccg aggccaggtt gtctttctac 60
tcgggacact cttcctttgg gatgtactgc atgggtgttct tgggtgctgta tgtgcaggca 120
cgactctgtt ggaagtgggc acggctgctg cgaccacag tccagttctt cctgggtggc 180
tttgcctctt acgtgggcta caccgcgctg tctgattaca aacaccactg gagcgatgtc 240
cttggtggcc tctgcaggg ggcaactggtg gctgccctca ctgtctgcta catctcagac 300
ttcttcaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360
agcctgtcac tgacgttgac cctgggcgag gctgacnaca accactatgg ataccgcac 420
tcctcctcct gagg 434

<210> 1591
<211> 439
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 409
<223> n = A,T,C or G

<400> 1591
gcttttcgcca gaaaatgttg catgtcaaac aatatgtgat ccatactgtg tgtcgtcctt 60
gggggtttat ttgactttgt cacaatgaca gccaacagtg agactgataa gcctgtaaaa 120
ataaaaaaat aagactaatc aaatagacat ggcatTTTaa tctcaaagtg caaaatcatc 180
taactgaaaa tgacggcatt gagaaattcc agtggTTaaa aatgaatcaa aacttcatta 240
cgcaggcagt ggaagtgtgt tgaaagattt accaggggtg tcaagTTtta gacactcaga 300
aaggcaccat tctagccatc ttgattggat aacatgtata tacttatgtc cctacgatat 360
tcaaaagata atactgtttt agtacaaaac aatcaaaca ggcaaagant caaaaccaag 420
ccaacccaaa tatccccag 439

<210> 1592
<211> 74
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 53
<223> n = A,T,C or G

<400> 1592
tttttttttc taatgttcac agtccctgct ttatttccat ttgttcacac acncttttaa 60
aaaaaaaaaa aaaa 74

<210> 1593
<211> 288

<212> DNA
 <213> Homo sapiens

<400> 1593
 ccattccgaag caagattgca gatggcagtg tgaagagaga agacatattc tacacttcaa 60
 agcttttggtg caattcccat cgaccagagt tgggtccgacc agccttggaag aggtcactga 120
 aaaatcttca attggattat gttgacctct accttattca ttttccagtg tctgtaaaagc 180
 caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac acagtggatc 240
 tctgtgccac gtgggaggcc gtggagaagt gtaaagatgc aggattgg 288

<210> 1594
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 1594
 ccacacagac tcaccaagcc acagacttgt cttccacaag cacgttctta ccttagccac 60
 gaagtgacca agccacacgt actaaagggt gaactcaaag atatgtacag ggtattaaac 120
 aaataccaag gggaacagtt aacttcaata caagggtcaaa atcagcaaca agttctacaa 180
 tccagtgctg atatcagata caagcttcaa ggacaatttc ttttcgaagg cttattccag 240
 tttcgtgagg ctagcatgag gtgtgtgcat ttgccagggg caaatttcta ttctcaatta 300
 acccatgcag caaatgctac gcattctgctg agtccgttta gaagcatttg cgggtggacga 360
 tggagggggc cgactcgtcg tactcctgct tgctaatacca catctgctgg aagggtggaca 420
 gtgaggccag gatggagcca ccgatccaca ccgag 455

<210> 1595
 <211> 367
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 360
 <223> n = A,T,C or G

<400> 1595
 ccaggctacc ttcccactgg agacaggcag ggggacaggt gctaaggagc ctggcaggca 60
 gggctggcag gcccacatggc gcctgttcca gcagatgaca agcccaggtc agggtagagc 120
 gggcaggagg ggggacgagg gctcccacaa catgattttg tgtaaaatat ggcagcgaca 180
 cacgctcagg gccgggagggt ggggggttagg gtggggacgg cggcaacatc gtgtaaaaaa 240
 gtgtcccagt tcccatagca aagagagctg tgaccgggtg ttogagcttc tccagtacaa 300
 gggggaaaagc cgcccggcgg gggcggcggg caggacatc atttggttcc ctggtgctgn 360
 cagtccg 367

<210> 1596
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 1596
 ctgttcttca tgcgcctggg ggggaagacg cccattgaga cactgatcag agacatgctg 60
 ctgtcgggga gtaccttcaa ctggccctac ggctcgggcc agtgaccatg acggggccac 120
 gtgtgctgtg gccaggcctg cagacagacc tcaagggaca ggggaatgctg agggcccggg 180
 agggccctcg agg 193

<210> 1597
 <211> 145
 <212> DNA
 <213> Homo sapiens

<400> 1597
 ccatgctgga tgttctgctg cttagacctg atctgctgcc aattaccagg ggcaggtcaa 60
 ggatgacctt cttggatcca ggaacgctaa catagatcag taaggaatat tcaactcgaa 120
 ggatgttgca gccaggata gaagg 145

<210> 1598
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 1598
 ctgcctataa aactagactt ctgacgctgg gctccagctt cattctcaca ggtcatcatc 60
 ctcatccggg agagcagttg tctgagcaac ctctaagtcg tgctcatact gtgctgccaa 120
 agctgggtcc atgacaactt ctggtggggc gagagcaggc atggcaacaa atcccaagtt 180
 agggctctca atgagcttcc tagcaagcca gaggaagggc ttttcaaagt tgtagttact 240
 tttggcagaa atgtcgtagt actgaagatt cttctttcgg tggaagacaa tggatttcgc 300
 cttcactttc ctgtccttaa tatccacttt gttgccacac aacacaatgg ggatgttttc 360
 acacactcgt accagatctc tatgccagtt aggcacattc ttgtaagtaa ctctcgatgt 420
 tacatcaaac attatgatgg cacac 445

<210> 1599
 <211> 142
 <212> DNA
 <213> Homo sapiens

<400> 1599
 cctgccccag ggggaagcac ggacccgaga cgacggcgat gaggaagggc tcctgacaca 60
 cagcgaggaa gagctggaac acagccagga cacagacgcg gatgatgggg ccttgacagta 120
 agcagcctga caggagcaat gg 142

<210> 1600
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 1600
 cctgcacttg aacatggctt tgggttttaag caacttctct accctgaccc tcctcctggg 60
 acagcgtttc gggaggtttc ttggcctcac tgagagggat gtggagctgc tgtaccccg 120
 caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180
 caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240
 tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg 297

<210> 1601
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 1601

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ctggagatga tcctcaacaa gccagggctc aagtacaagc ctgtctgcaa ccaggtggaa 60
tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattggt 120
ctggttgcct atagtgtctt gggatccac cgagaagaac catgggtgga cccgaactcc 180
ccggtgctct tggaggaccc agtcctttgt gcctcggcaa aaaagcacia gcgaacccca 240
gccttgattg ccctgcgcta ccagctacag cgtgggggtg tggctctgg 289

```

<210> 1602

<211> 398

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 274, 312, 329, 332, 368

<223> n = A,T,C or G

<400> 1602

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gggagggcag agggagaatg ggaagatcag gaagctctag attacttcag tgataaagag 60
tctggaaaac aaaagttaa tgattcagaa ggggatgaca cagaggagac agaggattat 120
agacagttca ggaagtcagt cctcgcagat cagggtaaaa gttttgctac tgcattcac 180
cggaatactg agaaggaagg actcaagtac aagtccaaag tttcactgaa aggcaataga 240
gaaagtgatg gatttagaga agaaaaaaat tatnaactta aagagactgg atatgtagt 300
gaaaggccta gnactacaaa agataagcnc anagaagaag acaaaaattc tgaaagaata 360
acagtaanga aagaaactca gtcacctgag caggtaaa 398

```

<210> 1603

<211> 438

<212> DNA

<213> Homo sapiens

<400> 1603

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ctggtgatct gctttcttac cctaactctt gacaaatgag tcgtctacta ttttaaagag 60
tctggaggtc tctgactctg ccataacaat aacctgctgt taatttataa cacagatttt 120
tgtttggaag agccttattt gaaatacact ttgattcatt ttcttaaata tttatattct 180
tttcttgctt acttcagggt tggtagctta gttggaagtg ccagcacctg gcacctattc 240
atatagaaca ggctgtactc aagacaactt ctagcattta ctttaagact tatataattt 300
atctctattt tgtgtgtact atagtcttgt gcatatgtag ttgaacacac agtgaaatat 360
atgtctctct ttgtggatgt gcggcctaaa aatttgaatg tctggtgaga gagagccatg 420
tgtataggtc agagaaaa 438

```

<210> 1604

<211> 297

<212> DNA

<213> Homo sapiens

<400> 1604

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cctgcacttg aacatggcct tggttttaag caacttctct accctgaccc tctcctggg 60
acagcgtttc gggagggttc ttggcctcac tgagagggat gtggagctgc tgtaccccg 120
caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180
caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240
tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg 297

```

<210> 1605

<211> 451

<212> DNA
<213> Homo sapiens

<400> 1605
ggaaaggcta ttgtttctcg acagtttgtg gaaatgaccc gaactcggat tgagggctta 60
ttagcagctt ttccaaagct catgaacact ggaaaacaac atacgtttgt tgaaacagag 120
agtgttaagat atgtctacca gcctatggag aaactgtata tggtagctat cactaccaaa 180
aacagcaaca ttttagaaga tttggagacc ctaaggctct tctcaagagt gatccctgaa 240
tattgccgag ccttagaaga gaatgaaata tctgagcact gttttgattt gatttttgct 300
tttgatgaaa ttgtcgact gggataccgg gagaatgtta acttggcaca gatcagaacc 360
ttcacagaaa tggattctca tgaggagaag gtgttcagag ccgtcagaga gactcaagaa 420
cgtgaagcta aggctgagat gcgtcgtaaa g 451

<210> 1606
<211> 272
<212> DNA
<213> Homo sapiens

<400> 1606
ccggagccca cgggtggctcat ggctgccaga gcgtcttgc tgetggggct ggtcctggcc 60
ttgtgtcct ccagctctgc tgaggagtac gtgggcctgt ctgcaaacca gtgtgccgtg 120
ccagccaagg acaggggtga ctgcggctac ccccatgtca ccccaagga gtgcaacaac 180
cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gccctgcag 240
gaagcagaat gcaccttctg aggcacctcc ag 272

<210> 1607
<211> 444
<212> DNA
<213> Homo sapiens

<400> 1607
ccaggctggg ctcaaactcc tcacctcaac tgatccgccc accttggcct cccaaagtgc 60
tgggattata ggtgtgagcc accgtgccca aagttaagta tttttgatca agtgttttgt 120
cttttgtgca aggcatttgt ggctctgtca tagcagagga aaacaaaaca tgcctatcaa 180
atgaatcaag tccgacctct tctcatattg agcaactaga ggtctaggaa catttcccct 240
acctgtcatt ctcatctggc ataccagggt tacatactcc ttcttattct cctctgttac 300
caagatgttg gccccatttg gtttgaggct acgaacttca caaactccaa actcttggac 360
ctcagtgtg aaggtgaggt catagcctag tgtggagaca tcattttcca gcagataaac 420
cagaccttg tagaagtgg aatc 444

<210> 1608
<211> 189
<212> DNA
<213> Homo sapiens

<400> 1608
caaaatccaa aactttctctt gaaaagttca gggaccgtcc aggggagatg gggaggagat 60
atggagttag tcacctgtct cagaagatgc cagcttctct ctccagggtg cttagttagc 120
tttgcccacc cctcactccc caggaggtct tggggacagc ttctctgcac ccctgtccca 180
cccacacag 189

<210> 1609
<211> 426
<212> DNA

<213> Homo sapiens

<400> 1609

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cttttggttat ccttagagga ctcaactggtt ttttttcata agcaaaaagt acctcttctt 60
aaagtgcact ttgcagacgt ttcactcctt ttccaataag cttgagttag gagcttttac 120
cttgtagcag agcagtatta acacctagtt ggttcacctg gaaaacagag aggctgaccg 180
tggggctcac catgcggatg cgggtcacac ggaatgctgg agagatgta tgtaatatgc 240
tgaggtggcg acctcagtgg agaaatgtaa agactgaatt gaattttaag ctaatgtgaa 300
atcagagaat gttgtaataa gtaaagcct taagagtatt taaaatatgc ttccacattt 360
caaaatataa aatgtaacat gacaagagat tttgcgtttg acattgtgtc tgggaaggaa 420
gggcca 426
```

<210> 1610

<211> 447

<212> DNA

<213> Homo sapiens

<400> 1610

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cagggctata gtgcgctatg ttgatctggt gttcatgcta agttccgcat caatatggtg 60
acttcttggg agtgggggac caccagggtg cctaaggagg ggtgaacctg cctacgttgg 120
aaatagagct ggtcaaaact cctgtgctca tcagtagtag aattgcacct gtgaatagcc 180
accgccctcc agcatgggca acatagcaag accctgcctc ttaagataaa aattggaaaa 240
cactggtagg aaaaaaaggc tgtttggctc aaataagtct ggattgggta taaatgacac 300
aaaactatca tgaatttgaa agcatttcta atttcttgaa agtctgaaaa agtttaaaaca 360
gaatttttagc tgaaaagtcc tgaaagacat ttgaaaaaaa acagcaagaa cacttaaaac 420
tattcaaggt ttgggctggg cacagtg 447
```

<210> 1611

<211> 238

<212> DNA

<213> Homo sapiens

<400> 1611

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ccaccggggt tgacctctct cgctagcagg gccacccag ctcaactccc gcgtcttcca 60
tcccctctag gattcccatt gtcccctact ccagcactag gcaggcacc cagcccact 120
gcgactccca ccacgaagga cccagccct ctctcagcca acacggcccc gccaccgtc 180
tcagacatcg tgcttcttct ggtgggccag gagtctctcc tcgtcgtcga aggtctgg 238
```

<210> 1612

<211> 293

<212> DNA

<213> Homo sapiens

<400> 1612

```
ctgctgcttg tatectcggg agagggtttc ccaactctgag cgggtgggaa ggcaatgcca 60
aacatccggg aaaaataaaa ccaactgtctc cacatgagct ggaactgtac gccccttgtg 120
ggtctcctca gggcgatggt agcgaatctc tgcaaaacgg taccattgtg tgcacacact 180
tagatcaatg cctgtcagag ccttacaaca acgaatagca gtcttaatac acacagaggg 240
atctttttct ggtcttggtc catccaacga aggagaccag tggcccccac tgg 293
```

<210> 1613

<211> 224

<212> DNA

<213> Homo sapiens

<400> 1613
 ctggattgac cccaaccaag gctgcaacct ggatgccatc aaagtcttct gcaacatgga 60
 gactggtgag acctgcgtgt accccaactca gcccagtggt gccagaaga actggtacat 120
 cagcaagaac cccaaggaca agaggcatgt ctggttcggc gagagcatga ccgatggatt 180
 ccagttcgag tatggcggcc agggctccga ctctgccgat gtgg 224

<210> 1614
 <211> 439
 <212> DNA
 <213> Homo sapiens

<400> 1614
 ctccaccctg gcgatggctc cctggtccta ctttctctct caaactggct ttttctcatt 60
 cctttgactc cgccagactt cctcgcccc atgacctggt gttgtgtctg atcaccccaa 120
 cattcctggc tgcccaatgt ggggcaatga agacccaggt gaaggaatgc tagagtgtgt 180
 gaaagtggag gacgcatcgt caaaggacac ctgaggacgt ctcaaagaag ctcggcggga 240
 gagctgagcg ctcggaagaa ccaagaatca tctcttttga aaaatcgatt catcaaata 300
 atcttcggcc aacaactgtt caagaaggat tcaaataatca caggttccaa gaagtaaagc 360
 tttggaggtc acaaaattag caatagaagc tgggttcggc catatagatt ctgctcattt 420
 atacaaataa tgaggagca 439

<210> 1615
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 1615
 aggcactcct ggaagtgggt cagtcagggt gcaaaaacat tgaacttgct gtcattgaggc 60
 gagatcaatc cctcaagatt ttaaactctg aagaaattga gaagtatgtt gctgaaattg 120
 aaaaagaaaa agaagaaaac gaaaagaaga aacaaaagaa agcatcatga tgaataaaat 180
 gtcttttgctt gtaattttta aattcatatc aatcatggat gagtctcgat gtgtagg 237

<210> 1616
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 1616
 ctgggctcta gtttcattcc atctgtcatt ctcaggtaac agggacacat gtccaagtgt 60
 tggcccccggt ggcattgatt tagctttgtt gataggcatt gcatcttttg tgtaatatgc 120
 aataatggca tgaccagatt catgatatgc tgtgatgggt ttgtttttgt tatcaatttc 180
 cacacttctt ctttcaggcc ccattagaat tttgtctttg gaaaactcca gctccttcatt 240
 ggtaaccatt tcttttccat caacag 266

<210> 1617
 <211> 185
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 62
 <223> n = A,T,C or G

<400> 1617
ccatggctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggc aggagtccga 60
gnaggttagt tgtggcaata aaaatgatta aggatactag tataagagat caggttcgtc 120
ctttagtgtt gtgtatggtt atcatttggt ttgagggttag ttgattagt cattgttggg 180
tggtg 185

<210> 1618
<211> 354
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 201, 214, 225, 230, 232, 241, 245, 249, 278
<223> n = A,T,C or G

<400> 1618
ctgttaacag ataagtttaa cttgcatctg cagtattgca tgttagggat aagtgcttat 60
ttttaagagc tgtggagttc ttaaataatca accatggcac tttctcctga ccccttcct 120
aggggatttc aggattgaga aatttttcca tcgagccttt ttaaaattgt aggacttggt 180
cctgtgggct tcagtgatgg ngatagtaca catntcactc agagngcatn tntgcatctt 240
ntaanatana tttcttaaaa gcctctaaag tgatcagntg ccttgatgcc aactaaggaa 300
atttgtttag cattgaatct ctgaaggctc tatgaaagga atagcatgat gtgc 354

<210> 1619
<211> 170
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 145, 146
<223> n = A,T,C or G

<400> 1619
ctgtgctgtg gagagaagct gatgttttgg tgtattgtca gccatcgctc tgggactcgg 60
agactatggc ctgcctccc caccctcctc ttggaattac aagccctggg gtttgaagct 120
gactttatag ctgcaagtgt atctnncttt tatctggtgc ctccctcaaac 170

<210> 1620
<211> 386
<212> DNA
<213> Homo sapiens

<400> 1620
cctgttgatt gcatactgta gaagatttga tgttcagact ggttcttctt acatatacta 60
tgtttcgtct acagttggta aatttttggt tttctttgta ttaaatgttg aattgtattg 120
tctggaggaa aagacagagg tctaaaaata aagaaggagt acagtttggg catggtggtt 180
cacccttgga gtctagcac tttggggggc aaggcaggca gattgcttga gccaggagt 240
tctagatgag cctgggcaac atagtgagac cccatctcta aaaaaacagt tttagggcc 300
ggcacagtgg ctcacacctg taagcccagc actttgggag gccgaggcag gcagatcata 360
agggcaagag attgagacca tcctgg 386

<210> 1621
 <211> 346
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 267
 <223> n = A,T,C or G

<400> 1621
 ccaattctgc ccgttccccg tgggccaaca acaactggggt tgtatgcgtc tggaaccctg 60
 tgatagtctt cggcttgcca gcctggccca ccacatccac tgccctggccc acacggacag 120
 acaactggcaa tggccgcagc tcctcatcaa acgtaaccag cattcggggc tgcattggcag 180
 ccaccagccc atacaatata tagtgtgatt tgcctagaat aatgtttcga acatccagga 240
 aagagacaag cacagtgagc agtccancca cggccacctg gctcataagc tgccgggtcgc 300
 tgtggtaggg gcagagggtg aggggtgccct tccctaaatg tgtcag 346

<210> 1622
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 1622
 ggaagtttgt gctctctgct tggctaagtt tttcacctac taggacgggg gtgggggtggg 60
 gagaacaggt gtccttctaa aatacagcac aagctacagc ctgcgtccag ccataaccca 120
 ggagtaacat cagaaacagg tgagaatgac cactttaact caccggggccc gtcgcactga 180
 aataagcaag aactctgaaa agaagatgga aagtgaggaa gacagtaatt gggagaaaag 240
 tocagacaat gaagattctg gagactctaa ggatatccgc cttactctta tggaagaagt 300
 attgcttctg ggactaaaag ataaagaggg gtacacatct ttctggaatg actgcatatc 360
 atcagg 366

<210> 1623
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 1623
 ctgttgattg gctgtgacac tgctttgtgt catcttctta ccatgatcaa aggcgaagga 60
 agggatctct tttgggacat tgtgattggt ttagcagaga gagaaagaga tgaaatacac 120
 ttcggttttc tcttaaaaga tgcattgtatc atacagtgtc ttaag 165

<210> 1624
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 1624
 ccaatgcccc gagcaggccc tctttccatc ccctgtcgga tgagctgggtc aactatgtca 60
 acaaacggaa taccacgtgg caagccgggc acaacttcta caacgtggac atgagctact 120
 tgaagaggct atgtgggtacc ttcttgggtg ggcccaagcc accccagaga gttatgttta 180
 ccgaggacct gaagctgcct gcaagcttcg atgcacggga acaatgg 227

<210> 1625

<211> 373
 <212> DNA
 <213> Homo sapiens

<400> 1625
 ctgtagcttt tgtgggactt ccactgctca ggcgtcaggg tcaggtagct gctggccgcg 60
 tacttggtgt tgctttgttt ggagggtgtg gtggtctcca ctccgcctt gacggggctg 120
 ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180
 agtgtggcct tgttggttg aagctcctca gaggagggtg ggaacagagt gaccgagggg 240
 gcagccttgg gctgacctag gacggtcagt ttggtccctc cgccgaacac ccgaagataa 300
 ttagtgctgt ctgttgagta acaatagtag tcaccttcac cttccacctg ggccccagt 360
 atggtcaagg tgg 373

<210> 1626
 <211> 367
 <212> DNA
 <213> Homo sapiens

<400> 1626
 ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggcgagg caggaggatc 60
 ottgaggtca ggagttcgag accagcctcg ccaacatggg gaaaccccat ttctactaaa 120
 aatacaaaaa ttagccaagt gtggtggcat atgctgttaa tcccaactac tcagaaggcc 180
 gaggcaggag aattacttga acgcaggaga atcactgcag ccttgagggc agaggttgca 240
 gtgagccgag attgcaccac tgtactccag cctgggtgac agagcaagac tccatctcag 300
 taaataaata aataaataaa aagcgctgca gtagctgtgg cctcaccctg aagtcagcgg 360
 gccagg 367

<210> 1627
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 1627
 ctggataagg acatcaatac cttctctatg cgtgtcaggg tgtggtaagg gtatcacttt 60
 ccggagctgg tgaagatcat caacgacaat gccacatact gccgtcttgc ccagtttatt 120
 ggaaaccgaa gggaactgaa tgaggacaag ctggagaagc tggaggagct gacaatggat 180
 ggggcccaagg ctaaggetat tctggatgcc tcacggtcct ccatgggcat ggacatatct 240
 gccattgact tgataaacat cgagagcttc tccagtcgtg tgggtgtctt atctgaatac 300
 cgccagagcc tacacactta cctgcgctcc aagatgagcc aagtagcccc cagcctgtca 360
 gccctaattg gggaagcggg aggtgcacgt ctcatcgac atgctggcag cctcaccaac 420
 ctgg 424

<210> 1628
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 1628
 tcgactgtta tagcttagaa agcaacacta ctactatgag actataaaac attaaactat 60
 tttaagaaaa ccacgctgtg gaaaaatgga gccatttttg tcaaaaagtg gctcaaagca 120
 caaaactgct cagatgttca agagtcctag gagtctgggc tgcacagtat taaggggtga 180
 gaggagaccg acagcctgtt tgaatcaggc ttgtgagccc agctcatctg acaacttcaa 240
 agagcttctc tgectataca ttccaccgtt tagcataaga caccacttta cgctatttac 300
 aagtctcctt ttgg 314

<210> 1629
 <211> 393
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 284
 <223> n = A,T,C or G

<400> 1629
 ctggaccagc accccattga cgggtacctc tcccacaccg agctggctcc actgcgtgct 60
 cccctcatcc ccatggagca ttgcaccacc cgctttttcg agacctgtga cctggacaat 120
 gacaagtaca tcgccctgga tgagtgggcc ggctgcttcg gcaccaagca gaaggatata 180
 gacaaggatc ttgtgatcta aatccactcc ttccacagta ccggattctc tctttaaccc 240
 tccccttcgt gttttccccc aatgttttaa atgtttggat ggtntgttgt tctgcctgga 300
 gacaaagggtg ctaacataga ttttaagtga ataacattaa cggtgctaaa aaatgaaaaa 360
 ttctaaccga agacatgaca ttcttagctg taa 393

<210> 1630
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 1630
 ctgcaagaat atcagaaatc aatacaaaaca agtattgaca ggtggttacag acatgcaaaa 60
 tatccttcaa tgcaacgaat ttttaagaaa tcagctagcc tatattaatc agatgtttta 120
 ggtcaaaacca agtttccatc tcgggctcag tgaaatagta ttaactcatt gagtctcctt 180
 tccccagga atgttgggaa tggcagaaca gaaagagcta tcaactcctta aattctttta 240
 tgcgagtgtt actccaacac ttattttact tggtttactt ggaatgtatg agaggaaact 300
 gatgtttttt acaatgg 317

<210> 1631
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 1631
 ccttaggcaa gtcaccttac ttatctaaga ctgtttcccc acctggaaga tgccctacaa 60
 gcctcctgtg gctgtgttta gaaagcatgc ccggcctttc ttgacagcca gccaccccag 120
 atgatggcag ggcaagggaag actgttagga gtcagagtgc tcccctcagg tggaaggaaa 180
 ctgggccaac tctactttgt aagccatagg gtgccaggta gcccggccac cctgagcctg 240
 tgccctccact gccccgcgt gg 262

<210> 1632
 <211> 138
 <212> DNA
 <213> Homo sapiens

<400> 1632
 ctggaattaa ttcttcgaca actccagacc gaccttcgga aggaaaaaca agacaaggcc 60
 gttctccaag cagaagtga gcacctgaga caggacaaca tgagactgca ggaggagtcc 120
 cagaccgcga cagctcag 138

<210> 1633
 <211> 192
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 17, 55, 80, 81, 94, 95, 106, 107
 <223> n = A,T,C or G

<400> 1633
 ccttgaaggg acctcanagc aaaggaagag acctgggtgt ggtgagggcat cccangggcat 60
 ggaaggggacc ggttgtgctn ngggaatcca ctgnnccctc cttggnnaaa aaagcacaac 120
 acatcatata tatttaccag accagaagcg ctggcccca gtctcccca cctgggtcggg 180
 ggaacctcct gg 192

<210> 1634
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 1634
 ctgcttttaa aggtcttaaa tcactcgaat accttgactt gagcttcaat cagatagcca 60
 gactgccttc tggctcctct gtctctcttc taactctcta cttagacaac aataagatca 120
 gcaacatccc tgatgagtat ttcaagcggt ttaatgcatt gcagtatctg cgtttatctc 180
 acaacgaact ggctgatagt ggaatacctg gaaattcttt caatgtgtca tccctgggtg 240
 agctggatct gtctataaac aagcttaaaa acataccaac tgtcaatgaa aaccttgaaa 300
 actattacct ggaggtcaat caacttgaga agtttgacat aaagagcttc tgcaagatcc 360
 tggggccatt atctactcc aagatcaagc atttgcggtt ggatggcaat cgcattctcag 420
 aaaccagtct tccaccggat atgtatg 447

<210> 1635
 <211> 364
 <212> DNA
 <213> Homo sapiens

<400> 1635
 gttttatttg agacataaaa acacatgtgt ttctattaca tagtgtgggg tttagggtcc 60
 tggtttctaa gacaagactt tatttcaccc tgtatcacag cttoctggga aatgaattag 120
 ggagcaagag acggcctggc aagaaaatca ttattgttgc tgggaagttg caaagaaagg 180
 ggagagttaa ttcaaattag tgtaacagag ccccaggat gaagagagtg gtgcagggaa 240
 aagggtctaaa ttocctggtgt tgggtggggac actggcacat cccacagcaa ggactcagcc 300
 ctcaacggcg gcggctgggt cttgggaggg gagtggtggg agggtaaggg ctctcagct 360
 ccct 364

<210> 1636
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 1636
 ctggctggct agactgtttg tgcgccaaaga ggatggctcag cgctgctttc cagcctggct 60
 ctgctggggc gctggcatct ggttcagttc caccattctc cctgctttct ttgccaaagt 120


```

tgatattcac ccaagggcac cagtctctat gctgagaggt gggatcaaag aagcttcggg 180
aagatgtgtc cgaactgctg gaggagcaga ggcgagctcg cttggctttc cgcagagggc 240
tagatggtag ctccaggcca ggggtgtctc ctgttcccat gcttcgggtc actgggcgag 300
ttctggtggt ggggctagca gcctctggt caggacggtc aacaggactg gaagagtccc 360
agctccgagt tcgagagaca atgggaccag ggctctttt 399

```

<210> 1637

<211> 246

<212> DNA

<213> Homo sapiens

<400> 1637

```

ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60
agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatata ttaacaaagc 120
aatagctctc aagcagcaga gcatctcgag gaagaaagct tgcccggctc ccatcccatc 180
atgccagagc gtgcagtgtc cacccttgac tacgctgggg aattgctgat tttttgaaaa 240
agcttg 246

```

<210> 1638

<211> 453

<212> DNA

<213> Homo sapiens

<400> 1638

```

ccaagagttc tccactgtga agactgaaag gacctggtga catttcggca tcagtcctgt 60
taccacttgg aggtaacaga agcaggctcg tgtcctcctt taattctacc aactacatg 120
actcgcaatt ggttctgaaa ttagaacgtt caccatcgta cttaaaatct taggggcatg 180
aagagtcagc tagaacaagg aaaaagaaaag tcgcaggtag taggtaagta ggtgggcaca 240
tgaaaagcca agctgctctg tccaacacca gtgtacatgt gctttaacta aatgaactcc 300
agaggccaac agcagcagac ctgctcaatt caccttccaa atcagaacaa gaccaaaaag 360
ctcaggcttg agttgtcaac tatgcatagg ttccgccagt gatgaggagc tcgtaagcag 420
gatctctact ccttctgcac aacacgatgc aag 453

```

<210> 1639

<211> 197

<212> DNA

<213> Homo sapiens

<400> 1639

```

tttgctgttc gtgatatgag acagacagtt gcggtgggtg tcatcaaagc agtggacaag 60
aaggctgctg gagctggcaa ggtcaccaag tctgccaga aagctcagaa ggctaaatga 120
atattatccc taatacctgc caccacctc ttaatcagtg gtggaagaac ggtctcagaa 180
ctgtttgttt caattgg 197

```

<210> 1640

<211> 278

<212> DNA

<213> Homo sapiens

<400> 1640

```

ccagagcggg gagtcccacc acctcgaact ctgggaattc gagccacagc tctgccagta 60
ccccaaagact cagcactagt ctgatgacct gctaattcac tgacagcata gggctgtctg 120
ttgtttttgc gcaagttggt gtgaacaaaag ttcacaatat ctggtcgaat aggagccttg 180
aatacagcag gcaagtgac atttttgcca gatgactccc ctttttggga gtacaccgat 240

```


<210> 1649
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 1649
 tgtggctgtg ccgttgggtc tgtgcggtca cttagccaag atgcctgagg aaacccagac 60
 ccaagaccaa ccgatggagg aggaggaggt tgagacgttc gcctttcagg cagaaattgc 120
 ccagttgatg tcattgatca tcaatacttt ctactcgaac aaagagatct ttctgagaga 180
 gctcatttca aattcatcag atgcattgga caaaatccgg tatgaaagct tgacagaccc 240
 cagtaaatta gactctggga aagagctgca tattaacott ataccgaaca aacaagatcg 300
 aactctcact attgtggata ctggaattgg aatgaccaag gctgacttga tcaataacct 360
 tgggtactatc gccaaagtctg ggaccaaagc gttcatggaa gctttgcagg ctggtgcaga 420
 tatctctatg attgg 435

<210> 1650
 <211> 246
 <212> DNA
 <213> Homo sapiens

<400> 1650
 ccatgtctgt attgtaactg gtaaaaggct tcaagtcaga ttgatgatca agaaaagtca 60
 aaaccccagc ccaagattgg gaaagcaggt ggtgggtcca agctttttaa aaattattga 120
 agctctccat cctgttctgt gagtgtgtct tctctttctc cttcacgtca tagccgtgac 180
 ccaccgttca tctctgtctt tgcgtaaaga tgaccgatgg agtccaaagc caagtggctt 240
 caccag 246

<210> 1651
 <211> 400
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 171, 172, 303, 344, 354, 357, 366, 367, 379, 391
 <223> n = A,T,C or G

<400> 1651
 cggcaagtgc tcccaggaga aagccatgtt cagttcgagc gccaaagacc tgaagcccaa 60
 tggcgagaag ccggacgagt tcgagtcagg catctcccag gctcttctgg agctggagat 120
 gaactcggac ctcaaggctc agctcaggga gctgaatatt acggcagcta nngaaattga 180
 agttggtggt ggtcggaaaag ctatcataat ctttgttccc gtccctcaac tgaaatcttt 240
 ccagaaaatc caagtccggc tagtacgcca attggagaaa aagttcagtg ggaagcatgt 300
 cgnttttate ggctcagagg aggaattctg cctaagccaa ctcnaaaaag ccgnacnaaa 360
 aattanngca aaaagcgtnc caggagccgt nctctgacag 400

<210> 1652
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 1652
 ctgggggtgc ccatcttctg tgctctgtgg tacatatctg tgcgcgcaaa gtagcgtgcc 60

```

cgggtacagca agccttcctt ctgctgcttc tccttccagc agttgttccg gaggttggcg 120
atataatcat cttccacatt ccgctcgact gttttgaggc tggagcctgt gtactcttcg 180
gagaaagtgt ctccacata gtagacgaca cccaggtggt cagtgactcg cctgtggatg 240
tgccccacag acggtcttgg actcagactg taggggtggac tggagaccat gagctggctg 300
agagctgaca cgagaatcag gatgaggata ggcacacag 338

```

```

<210> 1653
<211> 167
<212> DNA
<213> Homo sapiens

```

```

<400> 1653
gcggtggagc cgccacaaa atgcagattt tcgtggaaac ccttacgggg aagaccatca 60
ccctcgaggt tgaacctcgc gatacgatag aaaatgtaaa ggccaagatc caggataagg 120
aaggaattcc tcctgatcgc cagagactga tctttgctgg caagcag 167

```

```

<210> 1654
<211> 1034
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 88, 827, 882, 897, 905, 933, 945, 950, 955, 973, 976, 991,
999, 1010, 1022, 1023, 1024, 1033
<223> n = A,T,C or G

```

```

<400> 1654
atgcatgctc gagcggccgc cagtgtgatg gatatctgca gaattcgccc ttagcgtggg 60
cgcgcccgag gtccaagagg gagataaac aaacttctca aacaaaaaga aaagaaaaac 120
gaatgattca tctgctttta tcagtgtgat taatgcagca cccattgccc cggaaccgt 180
ttctgctgta ctatctggat actaaaatgt tacggaagta gctctttgtt ctccctcact 240
ctgccccttag ttaatagaaa ttcagactcg ccaagtaagg ctttgtgcat agtgtcttca 300
tgtgcgctat agttgagcgc gttcttagca gttggcttca tggacagctc attagtgttt 360
tgacttttct taccagcgt taattgaatt cttgctttta gacaacttcc tttttgtagt 420
ggtgaacctt gcccttttagt acagttcaag tgaatctgga taattgttca tctttgcttt 480
agcttagata ccatgtagt gtctgtggct acaggaagct ggttctgtct gcttccacag 540
tctgcttaaa aaactgtctg acttcgtgaa tatagagacc aagtttacca cttctgatga 600
agagaccaat taagattcat tcctcattct gtttctttcc agtgggagaa ggtccccat 660
gaaataagat gaaactgatt ccatgcacta gtacatgtag gcttctccct tgcgcaaagc 720
ttaacaattt gtaggaaact ttgggtcttt ttgtcccaag aaaaaggaat gtcttgacag 780
gcttaaagct tttcgtcccc ttgcacctta aaactcgaaa gttaggnaaa atccctttta 840
agggcttttt ttaatagcca gaacttccca aaaggaatgg cnttttaggg aatttcttag 900
ccatngcttt ttaaatttaa agaaattttt aanaaccttg cccnnggggn ggggnccgc 960
tccaaaaagg ggnggnaaaa ttccccagcc nacctttng gggggggccn cgttttctt 1020
tnnngggggg aanc 1034

```

```

<210> 1655
<211> 487
<212> DNA
<213> Homo sapiens

```

```

<400> 1655
atgcatgctc gagcggccgc cagtgtgatg gatatctgca gaattcgccc tttcgagcgg 60

```

```

ccgcccgggc aggtcctact cttctccgtc cattgtacta tctgcccgtg gtgggggatgg 120
cagtaggatc atatttgatg acttccgaga agcatattat tggctccgtc ataatactcc 180
agaggatgcg aaggatcatgt cctgggtggga ttatggctat cagattacag ctatggcaaa 240
ccgaacaatt ttagtgagaca ataacacatg gaataatacc catatttctc gagtagggca 300
ggcaatggcg tccacagagg aaaaagccta tgagatcatg agggagctcg atgtcagcta 360
tgtgctggtc atttttggag gacctcggcc gcgaccacgc taagggcgaa ttccagcaca 420
ctggcgggcg ttactagtgg atccgagctc ggtaccaagc ttggcgtaat catggtcata 480
gctgttt                                     487

```

<210> 1656

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 55

<223> n = A,T,C or G

<400> 1656

```

atgcatgctc gagcgggccc ccagtgtgat ggatatctgc agaattcgcc cttancgtgg 60
tcgcgggcca ggtcctaccc ataatccaga gaggcttgcc cagaggagga ctacgtgggg 120
gacgtgccac cagaacccta cttggggggcg ggatgtcact ccgagggtcaa aacctgctcc 180
gaggtggacg agccgtagct ccccgaaatgg gcttaagaag aggtggtggt cgaggtcgtg 240
gaggtcctgg gagagggggc ctagggcgtg gagctatggg tcgtggcgga atcggtggta 300
gaggtcgggg tatgataggt cggggaagag ggggctttgg aggccgaggc cgaggccgtg 360
gacgagggag aggtgccctt gctcgccctg tattgaccaa ggagcagacc tgcccggggc 420
gccgctcgaa gggcgaattc cagcacactg gcggccgtta ctagtggatc cgagctcggt 480
accaagcttg gcgtaatcat ggtcatagct gttt                                     514

```

<210> 1657

<211> 605

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 78, 91

<223> n = A,T,C or G

<400> 1657

```

atgcatgctc gagcgggccc cagtgtgatg gatattctgca gaattcgccc tttcgagcgg 60
ccgcccgggc aggtccanac gctgacattg nttctgagtc cttaagcagg aaggatttga 120
aatcctggag cttggcagtc ttgctcttca cctctaagcc aatggtgacc ccttcatcta 180
taaagtccac aactctccgg aagtcatact cacggaactg tcgagaagtt aaggctgggg 240
ccccaaagcg caggccgccc ggtgtgatgg cacttcggtc tccaggacag gtgttcttgt 300
tggcagtgat ggatacaagc tctagcaccg gtcagcccg agctccatcc aggcccttgg 360
gccgcaggtc caccagcacc aggtggttgt cagtaccacc tgataccagt gagtagcctc 420
gccctagcag ggcattctgcc atggcccagc cattcttcag aacctgcagg gagtactccc 480
ggaacatggg ggtgcaggac ctcgggccgc accacgctaa gggcgaattc cagcacactg 540
gcggccgtta ctagtggatc cgagctcggt accaagcttg gcgtaatcat ggtcatagct 600
gtttc                                     605

```

<210> 1658

<211> 784
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 4, 10, 19, 22, 53, 76, 85, 87, 149, 184, 713, 747
 <223> n = A,T,C or G

<400> 1658
 agnnttcogn cggccctcna gntgcatgct cgagcgggcg cgcagtgaga tgnatatctg 60
 cagaattcgc ccttanctg ggcgnangca tgacgctcgg gatcagaact aaaacaagtg 120
 agatcacccc tctaattatt tctgaactng gttaataaaa gcttataaga tttttatgaa 180
 gcanccactg tatgatattt taagcaaata tgttatttaa aatattgatc cttcccttgg 240
 accaccttca tgttagtgg gtattataaa taagagatac aaccatgaat atattatggt 300
 tatacaaaat caatctgaac acaattcata aagatttctc ttttatacct tcctcactgg 360
 cccctccac ctgcccatag tcaccaaatt ctgtttttaa tcaatgacct aagatcaaca 420
 atgaagtatt ttataaatgt atttatgctg ctagactgtg ggtcaaagt ttccattttc 480
 aaattattta gaattcctat gagtttataa tttgtaaatt tctaaatcca atcatgtaaa 540
 atgaaactgt tgctccattg gagtagtctc ccacctaaat atcaagatgg ctatatgcta 600
 aaaagagaaa atatggtcaa gtctaaaatg gctaattgtc ctatgatgct attatcatag 660
 actaaccgac atttatcttc aaaacaccaa attgtcttta gaaaaatta atngtgatta 720
 ccaggtagaa ggacctgccc gggcggnccg ctcgaaaggg ccgaaattcc agccccacct 784
 gggc

<210> 1659
 <211> 789
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 4, 19
 <223> n = A,T,C or G

<400> 1659
 tngngccctc tagatgcang ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60
 cccttagcgt ggtcgcggcc gaggtccatt aaagataagt ttggctaact attttactga 120
 agagactaat ggtcttccct ctgttgtact gctatgtttc ttgatctgtt tttccccaat 180
 gtaacagtct acattgaagt cctttagctc tctccatata ctaattgaca tttgttaagg 240
 attcaatatt ttgtgaattc tttttaccct taaaatgcat atctttcaga gagataagaa 300
 tgaattttgc aataatttat atgcagagtg tgcttatggg tttctgggag ttcaagttag 360
 taacccagag tgcttaaaag tacgatgcta aattctaagg ctaatgtaat gaotgtagat 420
 tatctatgtc cacattgttc aacagaaata taatgtgaac cacaacataa tttttaattt 480
 tctagtagcc atattaaaaa agaaacaagc aaaattaatt ttaataacag tttatgtaac 540
 ccagtatatatt aaaaatatca tttcaacatg taatcaatat aaaagattat taatgaaaca 600
 ccttatcctc tttttcttcc atgctaagtc ttagatttga gtgtattttg cactcacagc 660
 acatctcaat tctgactgga cctgcccggg cggcgctcgg aaagggcgaa ttccagcaca 720
 ctgggcggcc gttactagtg gatccgagct ccggtaccaa gcttggcgta atcatgggtca 780
 tagctgttt 789

<210> 1660
 <211> 559
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3, 53, 313, 323, 330, 368, 411, 452, 457, 460, 463, 470,
487, 499, 516, 518, 545

<223> n = A,T,C or G

<400> 1660

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ccnccgcccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcngaattcg 60
ccctttccag cggccgccccg ggcaggtcca tcagacttct tgggtgcctg gctatattca 120
atgtgaagta aaaaatatcc caagtottac accaaaatag aggtctctgac ttagaagtat 180
gcttttagct ttctttttta ataagacatt ctggaagaaa aaaaaagaaa aaggaaagaa 240
aatcaagttt gaaacacagt taacacttat tttggcaaga aagcaacca aatctaaaaa 300
gcataaacta tngtccaaa tgnaaaaggn attacagaac aaactgcaag aggggaaaat 360
taaagccnca ctgaacgaaa aaatacagta tgtctaacat tttggaattg naatttaaac 420
cctaagggca aaagctgaaa aatcatgctt anacctnggn cngaccacn ctaagggcga 480
attccancac actggcggnc gttactagt gatccnanct cgtaccaag cttggcgtaa 540
tcctnggcat agctgtttc 559
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<210> 1661

<211> 453

<212> DNA

<213> Homo sapiens

<400> 1661

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ttgggcccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60
ccctttcgag cggccgccccg ggcaggtctg cagtgtccct ttttatatca tgctagtgtt 120
gagacatact tgactaactt ggaacagtt cgatatattg acaaccgtca acttaagaaa 180
atcaacagct tttggcccca gcgtccaagt gaacttttca tggagtgcag aatctcaa 240
ggacaaaata ctttgtcttt ttaaatactg aaaatttaat tattagtact atgactgaaa 300
gattcttcat ggctaaaaag ctctgcatca aactcaattc aggaggacct cggccgcgac 360
cacgctaagg gcgaattcca gcacactggc ggccgttact agtggatccg agctcggtac 420
caagcttggc gtaatcatgg tcatagctgt ttc 453
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<210> 1662

<211> 809

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 16, 25, 47, 98, 301, 437, 446, 461, 464, 491, 500, 524, 526,
530, 564, 589, 599, 603, 617, 633, 657, 658, 676, 682, 689,
696, 709, 726, 738, 742, 751, 753, 755, 762, 773, 776, 779,
784, 789, 792, 802, 805

<223> n = A,T,C or G

<400> 1662

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ccaattgaca gcataaaaaat taatagtccc atatcagatc tggaaggggt ttctggggct 180
gtctgatgtc cctatcctgt tgtagtgaac acaatagcag aaaattcttt ctgggtccat 240
ctgctataaa gtcttggtaa aacagcatta ctatgaagag gatgaactca cctaccttca 300
```


ngaaagtgga acaggggtaa agggcaaaaa ttaaccccc ccacccaat taaagtttcc 600
 tggaangtca ntantntttt naatcccca aggnnnncatt tctnttttaa aaaattggnt 660
 accttttgga ctgggggtaaa gnaaaatnag gaacccctgg gnggtttttt ttatnttttc 720
 ttnaanccaa ccccccaatt ccaccttaaa aacccccacc cgggggangg ccaaaaangnc 780
 cacccttgng gaaacncttt tngtgggggn cccggtcgna aaaccaacc nccctntaaa 840
 aagggggggt cgnaaaaaa tttctccna aganaaacc acctttgggg cgnggggacn 900
 cgntttaccc nttaaaatgg ggggaattcc ccgaaagcgt ttgggggtaa ccccaaaaga 960
 cctttggggg gggaaaaatg aatgggggnc cattaacn 999

<210> 1665

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1665

gctaaaggtg accccaagaa accaaag

27

<210> 1666

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1666

ctattaactc gagggagaca gataaacagt ttcttta

37

<210> 1667

<211> 207

<212> PRT

<213> Homo sapiens

<400> 1667

Met	Gln	His	His	His	His	His	His	Ala	Lys	Gly	Asp	Pro	Lys	Lys	Pro
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Lys	Gly	Lys	Met	Ser	Ala	Tyr	Ala	Phe	Phe	Val	Gln	Thr	Cys	Arg	Glu
		20						25					30		
Glu	His	Lys	Lys	Lys	Asn	Pro	Glu	Val	Pro	Val	Asn	Phe	Ala	Glu	Phe
		35					40					45			
Ser	Lys	Lys	Cys	Ser	Glu	Arg	Trp	Lys	Thr	Met	Ser	Gly	Lys	Glu	Lys
		50				55					60				
Ser	Lys	Phe	Asp	Glu	Met	Ala	Lys	Ala	Asp	Lys	Val	Arg	Tyr	Asp	Arg
65					70					75				80	
Glu	Met	Lys	Asp	Tyr	Gly	Pro	Ala	Lys	Gly	Gly	Lys	Lys	Lys	Lys	Asp
				85					90					95	
Pro	Asn	Ala	Pro	Lys	Arg	Pro	Pro	Ser	Gly	Phe	Phe	Leu	Phe	Cys	Ser
			100					105					110		
Glu	Phe	Arg	Pro	Lys	Ile	Lys	Ser	Thr	Asn	Pro	Gly	Ile	Ser	Ile	Gly
		115				120						125			
Asp	Val	Ala	Lys	Lys	Leu	Gly	Glu	Met	Trp	Asn	Asn	Leu	Asn	Asp	Ser

130		135		140	
Glu Lys Gln Pro Tyr Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys Tyr					
145		150		155	160
Glu Lys Asp Val Ala Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly Ala					
	165		170		175
Lys Gly Pro Ala Lys Val Ala Arg Lys Lys Val Glu Glu Glu Asp Glu					
	180		185		190
Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu					
195		200		205	

<210> 1668
 <211> 636
 <212> DNA
 <213> Homo sapiens

<400> 1668
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 atgtccgctt atgccttctt tgtgcagaca tgcagagaag aacataagaa gaaaaaccca 120
 gaggtccctg tcaatttttg ggaattttcc aagaagtgtc ctgagagggtg gaagacgatg 180
 tccgggaaag agaaatctaa atttgatgaa atggcaaagg cagataaagt gcgctatgat 240
 cgggaaatga aggattatgg accagctaag ggaggcaaga agaagaagga tcctaattgct 300
 cccaaaaggc caccgtcttg attcttcttg ttctgttcag aattccgccc caagatcaaa 360
 tccacaaacc ccggcatctc tattggagac gtggcaaaaa agctgggtga gatgtggaat 420
 aatttaaatt acagtgaata gcagccttac atcactaagg cggcaaagct gaaggagaag 480
 tatgagaagg atgttgctga ctataagtcg aaaggaaagt ttgatgggtg aaaggggtcca 540
 gctaaagttg cccggaaaaa ggtggaagag gaagatgaag aagaggagga ggaagaagag 600
 gaggaggagg aggaggagga tgaataatga ctcgag 636

<210> 1669
 <211> 2821
 <212> DNA
 <213> Homo sapiens

<400> 1669
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 agccccgcgc aagtctggcg gcacctggcg agcggagccg gaggctgggt ggggaccgcg 120
 ggggttaggc cggaccgcgc cggggtcggg ggagaaacgc gcgctgccct ggcacggggc 180
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 gcgagtcctg cggcggcggc gacgatggg ctgcgtgcag gaggaacgct gggcagggcc 300
 ggcgcgggtc gggggggcgc cgaggggccc gggccgagcg gcggcgcgca gggcggcagc 360
 atccactcgg gccgcacgc cgcggtgcac aacgtgccgc tgagcgtgct catccggccg 420
 ctgcgcgtcg tggttgacct cgccaagggt cagagcctcg tggacacgat ccgggaggac 480
 ccagacagcg tgccccccat cgatgtcctc tggatcaaag gggcccaggg aggtgactac 540
 ttctactoct ttgggggctg ccaccgctac gcggcctacc agcaactgca gcgagagacc 600
 atccccgcca agcttgctca gtccactctc tcagacctaa ggggtgtacct gggagcatcc 660
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 tgtttttcca catagcatgg attctggaga tgggtggcta atggtattgg ttcaacaact 1140

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taatttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820
a 2821

<210> 1670
<211> 137
<212> PRT
<213> Homo sapiens

<400> 1670
Met Gly Leu Arg Ala Gly Gly Thr Leu Gly Arg Ala Gly Ala Gly Arg
1 5 10 15
Gly Ala Pro Glu Gly Pro Gly Pro Ser Gly Gly Ala Gln Gly Gly Ser
20 25 30
Ile His Ser Gly Arg Ile Ala Ala Val His Asn Val Pro Leu Ser Val
35 40 45
Leu Ile Arg Pro Leu Pro Ser Val Leu Asp Pro Ala Lys Val Gln Ser
50 55 60
Leu Val Asp Thr Ile Arg Glu Asp Pro Asp Ser Val Pro Pro Ile Asp
65 70 75 80
Val Leu Trp Ile Lys Gly Ala Gln Gly Gly Asp Tyr Phe Tyr Ser Phe
85 90 95
Gly Gly Cys His Arg Tyr Ala Ala Tyr Gln Gln Leu Gln Arg Glu Thr
100 105 110
Ile Pro Ala Lys Leu Val Gln Ser Thr Leu Ser Asp Leu Arg Val Tyr
115 120 125
Leu Gly Ala Ser Thr Pro Asp Leu Gln
130 135

<210> 1671
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1671
 Met Ala Arg Pro Glu Leu Arg Pro Gly Gly Gly Gly Glu Ser Arg Gly
 1 5 10 15
 Gly Gly Asp Asp Gly Ala Ala Cys Arg Arg Asn Ala Gly Gln Gly Arg
 20 25 30
 Arg Gly Ser Gly Gly Ala Arg Gly Ala Arg Ala Glu Arg Arg Arg Ala
 35 40 45
 Gly Arg Gln His Pro Leu Gly Pro His Arg Arg Gly Ala Gln Arg Ala
 50 55 60
 Ala Glu Arg Ala His Pro Ala Ala Ala Val Arg Val Gly Pro Arg Gln
 65 70 75 80
 Gly Ala Glu Pro Arg Gly His Asp Pro Gly Gly Pro Arg Gln Arg Ala
 85 90 95
 Pro His Arg Cys Pro Leu Asp Gln Arg Gly Pro Gly Arg
 100 105

<210> 1672
 <211> 145
 <212> PRT
 <213> Homo sapiens

<400> 1672
 Met Gly Leu Lys Ser His Val Leu Pro Ala Pro Asn Ser Gln Gly Gln
 1 5 10 15
 Gly Ser Leu Cys Ile Phe Val Tyr Val Thr Ser Tyr Met Asp Tyr Ile
 20 25 30
 Gln Leu Gln Gly Lys Glu Asn Leu Asp Cys Ser Gly Leu Asn Lys Gln
 35 40 45
 Lys Ile Val Phe Pro His Ser Met Asp Ser Gly Asp Gly Trp Leu Met
 50 55 60
 Val Leu Val Gln Gln Leu His Glu Gly Arg Gly His Val Leu Asp Pro
 65 70 75 80
 Phe Ala Leu Ile Ser Val Leu Val Thr Ser Trp Ser Gln Asp Gly Cys
 85 90 95
 Cys Ile Pro Lys Asn His Val Cys Val Gln Gly Arg Arg Gly Gly Gly
 100 105 110
 Arg Gly Arg Ala Lys Leu Ala Gly Pro Val Thr Phe Tyr Gln Lys Val
 115 120 125
 Lys Pro Arg Gln Lys Ser Val Ser Cys Ser Leu Pro Leu His Ile Phe
 130 135 140
 Thr
 145

<210> 1673
 <211> 117

<212> PRT

<213> Homo sapiens

<400> 1673

```

Met Asp Tyr Ile Gln Leu Gln Gly Lys Glu Asn Leu Asp Cys Ser Gly
 1          5          10          15
Leu Asn Lys Gln Lys Ile Val Phe Pro His Ser Met Asp Ser Gly Asp
      20          25          30
Gly Trp Leu Met Val Leu Val Gln Gln Leu His Glu Gly Arg Gly His
      35          40          45
Val Leu Asp Pro Phe Ala Leu Ile Ser Val Leu Val Thr Ser Trp Ser
      50          55          60
Gln Asp Gly Cys Cys Ile Pro Lys Asn His Val Cys Val Gln Gly Arg
65          70          75          80
Arg Gly Gly Gly Arg Gly Arg Ala Lys Leu Ala Gly Pro Val Thr Phe
      85          90          95
Tyr Gln Lys Val Lys Pro Arg Gln Lys Ser Val Ser Cys Ser Leu Pro
      100          105          110
Leu His Ile Phe Thr
      115

```

<210> 1674

<211> 90

<212> PRT

<213> Homo sapiens

<400> 1674

```

Met Asp Ser Gly Asp Gly Trp Leu Met Val Leu Val Gln Gln Leu His
 1          5          10          15
Glu Gly Arg Gly His Val Leu Asp Pro Phe Ala Leu Ile Ser Val Leu
      20          25          30
Val Thr Ser Trp Ser Gln Asp Gly Cys Cys Ile Pro Lys Asn His Val
      35          40          45
Cys Val Gln Gly Arg Arg Gly Gly Gly Arg Gly Arg Ala Lys Leu Ala
      50          55          60
Gly Pro Val Thr Phe Tyr Gln Lys Val Lys Pro Arg Gln Lys Ser Val
65          70          75          80
Ser Cys Ser Leu Pro Leu His Ile Phe Thr
      85          90

```

<210> 1675

<211> 102

<212> PRT

<213> Homo sapiens

<400> 1675

```

Met Gln Asn Cys Val Pro Val Ser Phe Cys Cys Val Thr Asn His Pro
 1          5          10          15
Gln Thr Trp Gln Leu Glu Thr Asn Pro Val Phe Ser His Asn Pro Met
      20          25          30
Gly Trp Gln Phe Gly Leu Gly Ser Thr Gly Gln Phe Cys Cys Ser His
      35          40          45

```

Leu Gly Ser Leu Met Glu Leu Arg Ser Ala Val Thr Ser Ala Gly Pro
 50 55 60
 Gly Trp Ser Arg Ile Ala Leu Leu Thr Cys Leu Ala Gly Asp Arg Leu
 65 70 75 80
 Leu Ala Gly Ile Ala Trp Phe Ser Ser Met Trp Pro Leu Gln Gln Ala
 85 90 95
 Ser Ser Gly Leu Phe Thr
 100

<210> 1676
 <211> 1336
 <212> DNA
 <213> Homo sapiens

<400> 1676
 ctctaagcag catgtaacct ggccctgcac caggaaatag aggacttcgg atcctttctaa 60
 ccctaccacc caactggccc cagtacattc attctctcag gaaaaaaaaac aaggtcccca 120
 cagcaaagaa aaggaatagg atcaagagat acgtggctgc tggcagagca agcatgaatt 180
 cgatgacttc agcagttccg gtggccaatt ctgtgttggt ggtggcacc cacaatgggt 240
 atcctgtgac cccaggaatt atgtctcacg tgcccctgta tccaaacagc cagccgcaag 300
 tccacctagt tccctgggaac ccacctagtt tgggtgtcgaa tgtgaatggg cagcctgtgc 360
 agaaagctct gaaagaaggc aaaaccttgg gggccatcca gatcatcatt ggccctggctc 420
 acatcggcct cggctccatc atggcgacgg ttctcgtagg ggaataacctg tctatttcat 480
 tctacggagg ctttcccttc tggggaggct tgtggtttat catttcagga tctctctccg 540
 tggcagcaga aaatcagcca tattcttatt gcctgctgtc tggcagtttg ggcttgaaca 600
 tgcgtcagtc aatctgctct gcagttggag tcatactctt catcacagat ctaagtattc 660
 cccaccata tgcctacccc gactattatc cttacgcctg ggggtgtgaac cctggaatgg 720
 cgattttctg cgtgctgctg gtctttotgcc tcctggagtt tggcatcgca tgcgcatctt 780
 cccacttttg ctgccagttg gtctgctgtc aatcaagcaa tgtgagtgct atctatccaa 840
 acatctatgc agcaaaccac gtgatcaccc cagaaccggg gacctacca ccaagttatt 900
 ccagtgaagt ccaagcaaat aagtaaggct acagattctg gaagcatctt tcaactgggac 960
 caaaagaagt cctcctccct ttctgggctt ccataacca ggtcgttcct gttctgacag 1020
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 cacacacaca ttctgtgtgt ctgctgcatg tgagcttggt ggtagagga acaaatatct 1260
 agacattcaa tcttcaactc ttcaattgtg cattcattta ataaatagat actgagcatt 1320
 caatgtgaaa aaaaaa 1336

<210> 1677
 <211> 250
 <212> PRT
 <213> Homo sapiens

<400> 1677
 Met Asn Ser Met Thr Ser Ala Val Pro Val Ala Asn Ser Val Leu Val
 1 5 10 15
 Val Ala Pro His Asn Gly Tyr Pro Val Thr Pro Gly Ile Met Ser His
 20 25 30
 Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His Leu Val Pro Gly
 35 40 45
 Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln Pro Val Gln Lys
 50 55 60

Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln Ile Ile Ile Gly
 65 70 75 80
 Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr Val Leu Val Gly
 85 90 95
 Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly Phe Pro Phe Trp Gly Gly
 100 105 110
 Leu Trp Phe Ile Ile Ser Gly Ser Leu Ser Val Ala Ala Glu Asn Gln
 115 120 125
 Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser Leu Gly Leu Asn Ile Val
 130 135 140
 Ser Ala Ile Cys Ser Ala Val Gly Val Ile Leu Phe Ile Thr Asp Leu
 145 150 155 160
 Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr Pro Tyr Ala Trp
 165 170 175
 Gly Val Asn Pro Gly Met Ala Ile Ser Gly Val Leu Leu Val Phe Cys
 180 185 190
 Leu Leu Glu Phe Gly Ile Ala Cys Ala Ser Ser His Phe Gly Cys Gln
 195 200 205
 Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile Tyr Pro Asn Ile
 210 215 220
 Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val Thr Ser Pro Pro
 225 230 235 240
 Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys
 245 250

<210> 1678
 <211> 177
 <212> PRT
 <213> Homo sapiens

<400> 1678
 Thr Arg Pro Arg Arg Ala Ala Gln Gly Arg Arg Glu Ala Pro Pro Gly
 1 5 10 15
 Gly Glu Pro Glu Pro Arg Ala Ser Leu Ala Ala Pro Gly Glu Arg Ser
 20 25 30
 Arg Ser Arg Ala Gly Asp Arg Gly Val Glu Ala Gly Pro Arg Arg Gly
 35 40 45
 Arg Gly Arg Asn Ala Arg Cys Pro Gly Thr Gly Pro Asn Pro Pro Ala
 50 55 60
 Ala Arg Asn Gly Met Ala Arg Pro Glu Leu Arg Pro Gly Gly Gly Gly
 65 70 75 80
 Glu Ser Arg Gly Gly Gly Asp Asp Gly Ala Ala Cys Arg Arg Asn Ala
 85 90 95
 Gly Gln Gly Arg Arg Gly Ser Gly Gly Ala Arg Gly Ala Arg Ala Glu
 100 105 110
 Arg Arg Arg Ala Gly Arg Gln His Pro Leu Gly Pro His Arg Arg Gly
 115 120 125
 Ala Gln Arg Ala Ala Glu Arg Ala His Pro Ala Ala Val Arg Val
 130 135 140
 Gly Pro Arg Gln Gly Ala Glu Pro Arg Gly His Asp Pro Gly Gly Pro
 145 150 155 160
 Arg Gln Arg Ala Pro His Arg Cys Pro Leu Asp Gln Arg Gly Pro Gly
 165 170 175

Arg

<210> 1679
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1679
 Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile Tyr Pro Asn Ile
 1 5 10 15
 Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val Thr Ser Pro Pro
 20 25 30
 Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys
 35 40

<210> 1680
 <211> 717
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 22, 586, 687, 714
 <223> n = A,T,C or G

<400> 1680
 aaaagaattt ttgcttttctt tntctctaaa ttttccttcc gtgctttgat gcgggctcgt 60
 ttctcaogtt ccagtctggg aaaatgggtcc acataaggca aggcaaagaa tcgtttccta 120
 ttgtatcttt tathtaggtg ccaaggtata acccactgct tgaacttggt ccagatgatt 180
 cttccaaaga tgtctcttct ccaagcacca ggtctagctc tttcttgacc agtctgaaga 240
 agccttaggg catcttctct ttcctggaca actttatcta atgcatccat ggaatctact 300
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 ttacttttgt tccttagttg ctgacaggtc catgctgctc cagattttac tttttcttgc 480
 ccccagtttt ttgggtcatc aaaaaattct tctagtcctt tccttgacaa tgtgggtatga 540
 agtaatctat attggtgaaa ggatgtcaca tttggtgtac tcttangcaa caaactaaga 600
 aaaaaccctg tcaggcaggg acctgaggag ttattaacga accgggaaga attcagggcg 660
 gatgaaactc tcctaccaag aaagggncaa accgggcccgc agccatgttt tccncaat 717

<210> 1681
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 1681
 ctgtacattt aacaaaatat gtgcaagact gtcattggtga aaactacaaa acaatgataa 60
 aagaaattca agaaaacaaa taaatacagg ggtatactat attcatgaat tgggagaatc 120
 aatatcatta ttaagtctcc tcagattgat ctatagattc acagaaatcc caattcaaac 180
 cctatcagga ctatttgtag aaatagacac actgatgata aaatttacat agaaacacaa 240
 aggaagcaga atagccaaaa attattgggg aaaaaatgta gttgaaggat tcccattact 300
 ccttt

<210> 1682
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 1682
 aaattacact ccataaattt agacatatgt ctotccaagt aagtacgagc tgattgggaa 60
 cgggctccaa tggacatggc tctgcagtca aaatagttag cagatggaca ggtttgaaa 120
 atgtgagggc ccataatcatc ataaccagca ataaggagac caacaccata tggctctcgg 180
 ccataatcgtt gtgttggtat ctgggtctct tagactgggt aacgagcttg ttttaacaag 240
 gaatgaagta ctgtctttat tttcaaatta tacattatta acaaaggctt ctggcttatt 300
 ctttaattgt tgcataatcc accagagaaa taatgcaata ggacactatt tctttggcct 360
 aatataaaat gtttgacttt ctaccgaacc taagaaagag tgccagcaaa ataatttctt 420
 cccatctaaa acctgatttg ttttggtatc aaggggggtct aggatttctt gggacatcta 480
 gaaccattaa gaaacttt 498

<210> 1683
 <211> 322
 <212> DNA
 <213> Homo sapiens

<400> 1683
 aaaaattaaa aatagcacaa ttctacaatt ctgattttac caagaaaata aacctttttt 60
 ggcacatatt atoctatgaa aatggaaagc tgagtcaggc tgctctgctt ttcacagcac 120
 aaataagcat tcatgctatc agacttgga aattaactcg gtgacaaaaa ttcactggaa 180
 aatagaatcc ttggaaaaat ggggtcaggt gccatccact gagaggcaat gataatgtgt 240
 gtccttcgtt attagcacaa agttaggcag cacactataa ttttagctac atgcaactct 300
 ataggaacac atgtgggtaa gg 322

<210> 1684
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 51, 182, 188, 195, 203, 220, 246
 <223> n = A,T,C or G

<400> 1684
 aaaagatgct gtttccctgt tttcttccag gaacacagag accaacaacgg nttcaaacac 60
 agggcgagct tctcactatt tcttggaat gttacttctc agcccaacac ttctcttccc 120
 aagaagttca agttttgaga ctgtttttct ccccggaaca gtacttaaaa aaaaaaaaaat 180
 cnttgatntt caaanatggg ttnttttctg gtccctggaan agcatcagta actaaatata 240
 aagttntcca caatgctgcc cccctgggg ggctaaccgg atgccaaggg aga 293

<210> 1685
 <211> 390
 <212> DNA
 <213> Homo sapiens

<400> 1685
 aaattgtcta actcctatcc cagtttcttt ttatagtcta aaaacaagga atcacccaag 60

```

taagatactc cttcagagca ctgctgaaaa cggatcaaac gtagagatcc cccagatccc 120
tggttctcaag tggttaaaaat attttatatt agcacataga atacccttag atatatctg 180
ttatgttcta aagagtttgt gtttccccct ttttgatgat gtcttcaatt tcttctgaga 240
cctttcctgt atagtcattt ggttctattg cttttaactt ctcttgatac tccagcggca 300
aaccattttc ttttgcaccc atgcaaataa tctttttata ctgtggggat gggggagcac 360
tttcgtaatt tgtcatcaga taacttcgac 390

```

```

<210> 1686
<211> 549
<212> DNA
<213> Homo sapiens

```

```

<400> 1686
gggtccagtc caacctgctc ctcatatttg taaacatgtg cagaatcaat atggtggaac 60
ccggcttcta ttgccaatth gacggcctct agagctttac ttttaggaac ctgggggagc 120
aaccaaaacgt aatattttct gactaatgtg cctgagagtt agttcgggca caagcagcaa 180
cgttcacaaa aatcagcttt tcctcctttc ttggatgagc tctgtatgta gaatcataag 240
cccatcccag tctgactggg tctttcccat ttagtaataa aggttgggca tagcaggaac 300
ttctgcagtc ccagaaaaat cactgaaagt ggaagtgtcc ccaaaaacaat ttcactttca 360
gtgatttttt ggaaaaatca acaggacgca actatagtta cagacataat cttaattatt 420
tttagtatgg tgaaattaac acaaggaaat agccacatgg aaggaattat gaaggaatgc 480
agtgtaaagt cctgtgatcc ctctcccacc atgttgacaca gagcgactg actttatcca 540
gcatcatat 549

```

```

<210> 1687
<211> 442
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 34, 50, 67, 382, 384, 385, 435
<223> n = A,T,C or G

```

```

<400> 1687
caactgcaaa tgaagatcct ttttgatac ttgntgagaa agacacattn gggggggggg 60
tgtgacnaaa ataacgatgg ccggcttgat cccaagagc tgttacctg ggtagtacct 120
aataatcagg gcattgcaca agaggaggcg cttcatctaa ttgatgaaat ggatttgaat 180
ggtgacaaaa agctctctga agaagagatt ctggaaaacc cggacttggt tctcaccagt 240
gaagccacag attatggcag acaggctcca tgatgactat ttctatcatg atgagcttta 300
atctcogagc ctgtctcagt agagtactgg ctctttttat aatttggttac cagctttact 360
tttgtgataa aatattgatg tngnntttta cactcttaag tottaaccac agtcacaatt 420
atcttaaatgt agatnataat tg 442

```

```

<210> 1688
<211> 340
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 23, 52, 56, 58, 60, 62
<223> n = A,T,C or G

```

<400> 1688
 ctgccagcta acagcaagag cnttgagggc atcactgaac agatagcacc tnatgngntn 60
 tnatgattca aaaatctccc ttgctgttgg atttaccac acgtaggctt ttattttcttc 120
 ccattacatc tgtttagcca cagaaagcat cgggccatac tcaactgcaga agataagact 180
 tcttcagaat cttatttggt tagtgcactc aattttactt cactgtctca tcacttgaga 240
 gactgggttaa ggcaagaaac ccatttctta acattttttt tgttttcaaa catttgaaaa 300
 gcaacaccaa aacgtatgca gttaattcct caattctttc 340

<210> 1689
 <211> 140
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 61
 <223> n = A,T,C or G

<400> 1689
 ccagagggcc tgcacatgca atttccagtc cctgccttca gagagctgaa aagggggcct 60
 nggtctttta ttccagggct ttgcatgcgc tctattcccc ctctgcctct cccaccttc 120
 tttggagcaa ggagatgcag 140

<210> 1690
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 1690
 gagattatta cccagaattc acatgtaggg atggggaagg acaatttttt tttaactaaa 60
 aaagttaggc gcaggggtgg ggggtggcaa tcatttttct tcctatacat acaaaggata 120
 ttgtcaaaaa tggcggttct ctcttggtgc ctgttattct gattgctgct gtatacagtt 180
 ttgtcaactc ttagttttta gttaagcata ctgatagact ttctctaaa agccattcac 240
 tccagatttt acctggggaa tattctacat actgcttact ttctctataa aactcatcaa 300
 taaatcatga aaggcactga gttttgtaaa tcaggaccct aaatgtttta ttgtaaataa 360
 gtttcagata attattatag ctttgcggtg aagtttggtt ttttttttct caactagtta 420
 agtcaactgc ttctgaaata actctgtatt gtagattatg cagatcttta caggcataaa 480
 tattt 485

<210> 1691
 <211> 342
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 24, 26, 49, 50, 51, 53, 61, 62, 142, 173, 190, 193, 242,
 250, 291, 303, 304, 315, 329
 <223> n = A,T,C or G

<400> 1691
 gaagaaacaa ngatgacttt ttttanaaca aagcataatg ctggcaatnn ngnggggggt 60
 nnagttttcc aaacatgtta tcttaaatac ccctttatcc ttacagggtt acataacttt 120
 gaatgtttta acagcaagaa tnttaagaaa agataaacac catttttatt atntataaaa 180

```

acaaaattan ttncaaatat ttttgacatt gtgatttttt ttttccacat ttctcagcaa 240
anctaattggn attttaatat ttatttttgc ctgtcataag aaaactctta nctgaaatgg 300
ccnnaaaact gtganacatg ctatggaanc tgaatgccgg ac 342

```

```

<210> 1692
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 23, 59, 60, 409, 417
<223> n = A,T,C or G

```

```

<400> 1692
aaaaatgggg ccccaaagac tgntaagagc tcatccccgt ggtctcttat caccgggggn 60
gggggttcatg tctgatgaga agcttgagc gtactgaaac tcatacatgt aggtgggtgc 120
tccagcatct ctgtggttcc gggccacaat cacagatggg acaccaaaca tcacatctgc 180
tatcaagtcc aggaacaggt ctttcttttt gacagtgtcg tctgttcttc ctaagtattt 240
ctcagtggct tctggaatca gttccttagc aatgcaaaca aggggatagg acttccacag 300
gagtgcacatg gctgtcttct ggtccagttg cccttcggag agtggatagc tcatcaactg 360
cattggaatc aaccagccaa actcctgctt gttaattccg accatgtang ggacagngtg 420
gaaattcctt tcagcttgaa agctcttcag 450

```

```

<210> 1693
<211> 436
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 20, 51, 52, 58, 62, 286, 323, 333, 375, 385, 399, 401, 402,
407, 410, 426, 432
<223> n = A,T,C or G

```

```

<400> 1693
ctatttttatt aacatcatgn ttttaataaat aactggctac ttctaataaa nnggggggnc 60
cngttttacaa cagcccccaa tattccattt tgaccactct gcagaatttg gtgtaaaaag 120
ttgaatgaaa tgtagacctt gagctatcaa gtaattatgt ttcaatataa aaatagagaa 180
ttactcttac aactgaagat tgaacaataa cacaacaac ctctttgtgg gtttttaggtt 240
cggtaaaatt agttgggatc ttaatggctg tctaaagcag gaaganacag aattttaatc 300
tttctgaaga cttctgggaa ctnccttgaa agngatttgt taccttatca gagtttatga 360
gctatttattt tggtnaaggc acaangaaag gattcccang nngttgntan tcttttgccc 420
tggacnacaa anattg 436

```

```

<210> 1694
<211> 313
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 29, 32, 34
<223> n = A,T,C or G

```

<400> 1694
 attatctgca aggttttttt gtgtgtgtnt tngnttttat tttcaatatg caagtttaggc 60
 ttaatttttt tatctaataga tcatcatgaa atgaataaga gggcttaaga atttgtccat 120
 ttgcattcgg aaaagaatga ccagcaaaaag gtttactaat acctctccct ttgggggattt 180
 aatgtctggt gctgccgcct gagtttcaag aattaaagct gcaagaggac tccaggagca 240
 aaagaaacac aatatagagg gttggagttg ttagcaattt cattcaaaat gccaaactgga 300
 gaagtctgtt ttt 313

<210> 1695
 <211> 522
 <212> DNA
 <213> Homo sapiens

<400> 1695
 ccattttcag gggaagcttg ggagagcaat agtatggtga gccccttaga gatgagcgcc 60
 tactccttct tggcgaatgc tgccttcaga tgcttaccaa gtggtcactg catctagtaa 120
 gattatattt ccagtacact tccttagggc agaaacacca tcctatcagg tttgggtcagt 180
 cccttcttca tgaagggagt catggggaat tcctgaaaat tttcttcctt otgcagacag 240
 ttggatgagt cccttagaga aggcattccag agacataact aaactgaata tcattccata 300
 ttgatttttag gaattgactc taaaactctg tgcagaatct tgtgttgga ttgtatcttg 360
 acattcctgt tgtgttattt ttcttaactg gagtgtgtgc tgcctttcag gtacaatttt 420
 tgtgtaataa aagccagtgc attaagtta tatagactac tttctatgca agactgagat 480
 atggaataga taggaagaga tatgtactgc tgggtacatg ga 522

<210> 1696
 <211> 174
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 52, 55
 <223> n = A,T,C or G

<400> 1696
 ccagccattg cctggcattt ggtagtatag tatgattctc accattattt gncanggagg 60
 cagacatata ccagaaatgg gggagaaaca gtacatatct ttctgtcttt agttttattgt 120
 gtgctggtct aagcaagctg agatcatttg caatggaaaa cacgtaactt gttt 174

<210> 1697
 <211> 561
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 22, 55, 56, 198, 265, 374, 378, 399, 410, 465, 543, 549
 <223> n = A,T,C or G

<400> 1697
 ctgtaatgtt attgcagatc cncatctctc gctcaactgt taatgtctca acctnnagag 60
 gcacccacc cagcacactg tcagtaaagg ggcagattga aacagtgaga gtttaagggtta 120
 cagtagaaaa ttctgcatgt ttgcagtgc tagaatcaga tagtagtgtg gtgggttttt 180

```

tttttaataca ttatgaanag tgggagcttg caggtaaggc ttctgtggtg gtttgaaaag 240
cagaaagcaa taaatgaaac aaagngtttg tgtaatatat tcctgccttg tcttcctcac 300
tcagagttga aataggtttt gcagtaaagc tggaaaaaaa aagaaaacaa atgttcaaaa 360
ctgtgtgtgt tggngggngg aatttccttt gcttatagna gtttcagagn aactatatgt 420
tttttttccct ttctttttca caggcacaga aaactgaatc tgtanataac gagggaaaaat 480
gaattgcatg aaaaattggg gttgatttta tgtatctctt gggacaactt ttcctcggcc 540
gcnaccacnc taaggcgcaa t 561

```

```

<210> 1698
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 58, 62, 63
<223> n = A,T,C or G

```

```

<400> 1698
cgaggtctgc cctcgattgt gtatttctgt tggatcaaac actcccatgt taccactngg 60
cnncataatg tatcgatata tattccaagt ggcaacaggt aagttgagaa ggaagatgaa 120
ccagtgcaat gacatgagca gtaatacagt gacaatggta tggccactta aattaaaaat 180
ataacaaaat tgaaaaatag acatataacc aaaaagattc taaatcttgc aaggaaaaaa 240
agaataaagc tgccaataag ttattttt 267

```

```

<210> 1699
<211> 449
<212> DNA
<213> Homo sapiens

```

```

<400> 1699
tgttaagatt ttttttgcta caaagaggag gtggcaatgg tagatccacc cttatgcttc 60
tcagtttagc ataacctctt atggattttc atcaaattca gcgtgttggt cactggaaag 120
agccttttcc ttctcctttt cttactctcc cctcatgggt ttccctctt aaaggagagg 180
agcttttaat ttacacttac cacctcattt gcttttctgg aggccatgca atataggcgg 240
gactacagag ttaatctcct ttttacaaat gaggccaaga gaagcctcat tggttcacag 300
tcatgcagct catactgtcc acccttgtat tctcagatgc aggacaattg cattttagtt 360
ttattttgtg gaggtgcaga atatttactc tttctgtcca acccttgatt ctgccgagga 420
agacactgat ggtttgatga gtgattcag 449

```

```

<210> 1700
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<400> 1700
acatttcaca aataagatgt agctttccaa acaaatccat tcgatgacca ttatcacaa 60
tatattttat tctaatttat aaaacaaaaa atggtttagc aagcacatga tatcaagagt 120
cttcaacaca gtggattcca ttttattaag aaaaaaata gaaaacaagt agtccttaaa 180
ttgtcttagc tctccatagc atacgttata taaaattaaa gttttgcttc caaaaatatg 240
tttccatgtg gtcgtgggtg tgtccagtgc tattagggcc aaagcaccaa agacatgaga 300
agtttaacca tcgacttgtc atttttcata aaagctaaac atttccttat aggtctggag 360
taaaatcttc taggcatttt agtgctaaaa gtcacttt 398

```

<210> 1701
 <211> 257
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 12, 13, 27, 47, 53, 61, 63, 76, 77, 78, 79, 86, 87, 88,
 89, 92, 93, 97, 100, 101, 103, 127, 129, 130, 133, 134,
 141, 142, 143, 147, 149, 152, 155, 164, 166, 174, 185, 188,
 194, 203, 205, 220, 228, 237, 238, 240, 241, 246, 251
 <223> n = A,T,C or G

<400> 1701
 aaanaacact annngacctt agagatnata actgtttgat aatttgnctc agnccgtattg 60
 ncntaaaaga tatatnnnng gggggnnnnt cnntgtnaan ngntgtttgg attgcctgat 120
 attatancnn ggngtttggg nnntatntna cncantatac ctngnccgca accnccgctaa 180
 tggcnagnat catnacactg gcngnccgta ctactggatn cgagctcngt gccaatnncn 240
 ncgtctcat ngcccta 257

<210> 1702
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 476
 <223> n = A,T,C or G

<400> 1702
 acctaattna ttgaagtaat aaccaaataa ttttcaatct tgattcaact gtgattcaaa 60
 tcttacacca tttgccact tctatgaatt ttatgtataa aattttttta gagtcagagt 120
 tttttttctt gattaattgg atgtatttca cagaatttcc aactgtctac gttagttttc 180
 ttccttttag agttgatctc tctaattgat tagatcttca tgcctttgat agtctctctg 240
 gaataagttt gcagaaaaaa cttcagcatg tgccaggaac acaacctcac ottgatcaga 300
 gtattgttac aatcacattt gacgtaccag gaaatgcaaa ggaagaacat cttaatatgg 360
 ttattcagaa tcttctgtgg gaaaagaatg tgagaaacaa ggacaatcac tgcattggagg 420
 tcataaggct gaagggattg gtgtcaatca acgacaaatc acaacgagtg attgtncagg 480
 ggggtccatg agctctggtg atccgggagg agactccaat gagctg 526

<210> 1703
 <211> 116
 <212> DNA
 <213> Homo sapiens

<400> 1703
 gacctccgaa ctgagctcta atttagctga tcagattttg cttgggtaaa gttccttttt 60
 aatgtttctaa agtgtttacg gttctcaa atcagttaaa aactaatttt aggtgg 116

<210> 1704
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 209, 230, 235
 <223> n = A,T,C or G

<400> 1704
 aaaaattgtg taattggtta atgtccagtt ttgctctgtt ttgcctgaag ttttagtatt 60
 tgttttctag gtggacctct gaaaaccaaa ccagtacctg gggagggttag atgtgtgttt 120
 caggcttgga gtgtatgagt ggttttgctt gtattttctt ccagagattt tgaactttaa 180
 taattgcgtg tgtgtttttt ttttttttna aggggctttg tttttttttn tcaanaaaaa 240
 t 241

<210> 1705
 <211> 336
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 12
 <223> n = A,T,C or G

<400> 1705
 ggtcctgtnt anacacacat caatatgaaa caaaaaaat ttatataaat aagtcaatta 60
 aacttcacaa aaactaaaga aacacaagac aaaaatccaa caagcaataa aaactgtaca 120
 atattgggtca gtcttttata tctgaaaaat gtgtaactta aaaaaaagtt atttatcgta 180
 taaaaaaagt cttttacatc tgtgttagct ggagtgaaaa cttgaagact cagactcagt 240
 ggaaacagat gaatgtccac ctgcgtttcc tttggagagg atcttgaggc tggaccctct 300
 gctcacagag gtgagtgcgt gctgggcaga ggtttt 336

<210> 1706
 <211> 107
 <212> DNA
 <213> Homo sapiens

<400> 1706
 aggggtggctc tgggagcagt tgtgctgcgg gcttgctggg ggagaactct aactgttgca 60
 gaaacagagc ttcatggctt gcttaaatta cttagctgga atatattt 107

<210> 1707
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 468, 470
 <223> n = A,T,C or G

<400> 1707
 ttttttgtct ggtaattata tattttattat ttagcaaaac tgaagaaaaa aagcacagaa 60
 ttgtttcaac agatgtctct catthttcagc tagcattttct ctcccaagtt gagctgggtt 120
 aatgtgtttt ggattttccct cctcaattgg cttatttttt agatcacctg caattcattt 180

ctgaggacaa atggtgaaaa ctgtagttac tgaacccaaa tggttactcag agatatcaa 239

<210> 1711

<211> 122

<212> DNA

<213> Homo sapiens

<400> 1711

agtgtaatg aacacagaag agtgacatgt ttacaaacct caagccagcc ttgctcctgg 60
ctggggcctg ttgaagatgc ttgtatttta cttttccatt gtaattgcc tgcctatcac 120
ag 122

<210> 1712

<211> 169

<212> DNA

<213> Homo sapiens

<400> 1712

ttcccataaa taaaagtaca gttttcttgg tggcagaatg aaaatcagca acttctagca 60
tatagactat ataatcagat tgacagtata tagaatatat tatcagacaa gatgaggagg 120
tataaaagtt actattgctc ataatgactt acaggctaaa attagtttt 169

<210> 1713

<211> 392

<212> DNA

<213> Homo sapiens

<400> 1713

tgacagagag gatggcgctg tcgaccatag tctcccagag gaagcagata aagcggaagg 60
ctccccgtgg ctttctaaag cgagtcttca agcgaaagaa gcctcaactt cgtctggaga 120
aaagtgggtga cttattgggtc catctgaact gtttactgtt tgttcatcga ttagcagaag 180
agtccaggac aaacgcttgt gcgagtaa at gtagagtcac taacaaggag catgtactgg 240
ccgcagcaaa ggtaattcta aagaagagca gaggttagaa gtcaaagaac atattcttga 300
aagttatgat gcattctttt ggggtggtaac agatcataaa gacatttttt acacatcagt 360
taatatggga ttattaaata ttggctataa aa 392

<210> 1714

<211> 301

<212> DNA

<213> Homo sapiens

<400> 1714

tgggagggat attttccac aggaacaagg gtctccgtga tgacacgggg tctctatagt 60
catgttgaga gctaattggc ccttggcata attgctgggtg ttggggtaga aggtgtcttg 120
gagtttgctc aagtgggtga gagggaggga ggtgccatag acttggagga actggcacga 180
agccaaggat acaaattccag gcagggctgt ggggcaggat agggagcagg gccttctact 240
gaaggagtga ctcaggaagg aggaggggaa ggtgacaagc ccctgggcag gagccctgtg 300
g 301

<210> 1715

<211> 194

<212> DNA

<213> Homo sapiens

<400> 1715
 taaattcagg ctaacttctg aaaatcccgt tttattcacc tcaactgtgg accagtaact 60
 ataactgagtc aggttacttt acagttaact atgtcaccta aaacacaata atccattaac 120
 actctaataa cagttattgg gtgtgggtcat actggaaatt ctttaaccata tagttgtctt 180
 gccaatTTTT tttt 194

<210> 1716
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 1716
 gtaggaatgg gttcttggtg cacaagatag tattgttgag ctagttttcg agctctgtgc 60
 acaagcactc tttaattccc acggacgggg ctccctccagc tacagcagcc aaagcatatt 120
 caatctggac aagtttacca gacgggctga atgtagtcag cgaaaaactg taccgcgcgt 180
 ccgcc 185

<210> 1717
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3
 <223> n = A,T,C or G

<400> 1717
 aanaggctct tgggtggagag gactgtgaag ccgtcggcag gtgtgccctc gggtgtgccg 60
 tcggcgctgg ctgccttact gacttcaccc tgcttcttct tggatttccg ggcccccttc 120
 ttgcctctctg cttttttaga tgcaggcttc ttctgggatg gagacttggc ctttttggtt 180
 ggggggtggtg tgatgatggc ttccaacttt cttttggatc cccgcttctt cgctagcaac 240
 tcgggggtgga tggtgggtaa cacaccccca ctggctatgg tgactccttt tagcag 296

<210> 1718
 <211> 343
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 208, 322, 341
 <223> n = A,T,C or G

<400> 1718
 atggcattaa ttgttccttg cttttatagg gtgtattttg tacatttttg atttctttat 60
 ataaggatcat agattcttga gctgttggtg tttttagtgc acttaatat agcttgctta 120
 aggcatactt ttaatcaagt agaacaaaaa ctattatcac caggatttat acatacagag 180
 attgtagtat ttagtatatg aaatatntg aatacacatc tctgtcagtg tgaaaattca 240
 gcggcagtggt gtccatcata ttaaaaaatat acaagctaca gttgtccaga tcaactgaatt 300
 ggaacttttc tctgtcatgt gnatatatgt caaattgtca ngc 343

<210> 1719
 <211> 193

<212> DNA
<213> Homo sapiens

<400> 1719
tcgaggaccc ccgagatgca gaggatgcta tttatggaag aaatgggttat gattatggcc 60
agtgtcggct tcgtgtggag ttccccagga cttatggagg tcgggggtggg tggccccgtg 120
gtgggaggaa tgggcctcct acaagaagat ctgatttccg agttcttggt tcaggacttc 180
ctccgtcagg cag 193

<210> 1720
<211> 176
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30, 91, 145, 168, 170
<223> n = A,T,C or G

<400> 1720
tgattcagaa ttttttttaa tgaaaggatn attgcactaa cttttttcct gctgctctga 60
ttctgcattt gtggtacttg tgactacgtt ntttcaaata tagatagatt taagctgcta 120
atTTTTTTTT ttttagtaac cactnctata tcatgtcttt tactctgntn ataata 176

<210> 1721
<211> 128
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9
<223> n = A,T,C or G

<400> 1721
tattcttang aaacttcctt aatcccttgg aaattcccg gtccttcaag aataaaaaaa 60
aaagggtcaa gaagaacaaa ttaccaaagg gaaagaatgg ctttcaatat aataagggtcc 120
atTTTTTT 128

<210> 1722
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 34, 140, 165, 170, 230, 255
<223> n = A,T,C or G

<400> 1722
ttatgaagtt gacaaataaa taaaaggtag tggntatgtc tgagcttatt gtgtttgagc 60
taacaccagg ttactcagta accatgacct gtcctccat ttccatttat tctcaacatt 120
aaatagtttt atcttggtgn tgccagaaat gcacttgtgc cagggnattgn ccttgcgtga 180
tgaaaagctt cttggcaatg aattctgtaa taagtgcctt acattatggn tttctggtgg 240

aattggttta acagngacaa cccaggattt ccaatatatt tttgt

285

<210> 1723

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 33, 66, 67, 68, 406, 437, 450, 462, 498, 515, 516

<223> n = A,T,C or G

<400> 1723

```
cttggcttgc aggtggcacc ttctcactat gtntcacat ggcttttct ctgtggagag 60
ggacannnag catgagcagg ctctggtgtc tccttttct ataaagacac taatatcacc 120
atattagggc ttaaacctat gacctattt aaccttaacc ccttaaaggc cccatctcca 180
aaaacagtca catagcaggc tactgcttca acatatgcat ttgggggagg ggacaccatt 240
cagttcttaa caggggtgtc accgcaaaca tggaaagtca gagccttctc cccttcagaa 300
ttcccgcccc caccagggga tggggaagag gagcagagag gtatgggaag cagacacgga 360
gagtggcagg taccatgctg ggggtgggtc aggagtgtt tcgganggac atatggaact 420
ggcaggggtc aatgcangga gggcggaagn ccttgggaag ancccggtgc ctgagaaagg 480
ggctgggcta caaccctngg caagttactt taccnntgac cttcgatgct tttggg 536
```

<210> 1724

<211> 145

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4, 12, 27, 32, 45, 47, 48, 59, 61, 65, 93, 98, 103, 121

<223> n = A,T,C or G

<400> 1724

```
ctgncctttt gnaacaggac cctcacncta tncaatgggg ggtnnanntg aagcatganc 60
ntatncatgc ggaaaaccca actcatgtga gcncaaancg gancgaccca gacaaccatg 120
natgcggtta atatggggag agaaa 145
```

<210> 1725

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1725

```
caattotgga attaccact tgtttaattt tgagcaacat gatctagcat taatgtagtc 60
acattctaaa tcagacaatg taattatgaa gtagaccgag aggaagatga gcgcgcaaca 120
atcgaggaga gagaagacga acaccaccgc ctccatctc ctccctcgtc gcc 173
```

<210> 1726

<211> 302

<212> DNA

<213> Homo sapiens

<400> 1726

```

accggttgga aatgggccaat ggtctaattt ggtggttgaaa taaactaacc tctttggctg 60
tttctcccaa actgccacca gccaggcaag gccaatccaa tactgactgc tggctggggg 120
agctcgtaat ggtgatgcc gccctgcttt ttgcataatgt caggctaaca ggtgctttat 180
ttccagagaa ttgttaatgc ccttttttga aaagagcagc agaaattccg gacaagaatc 240
tgaaaaatag gtgtcaaaaa ctatttccca gaaggtagct gtacaggagt ttgagtctcc 300
ag                                                                 302

```

<210> 1727

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3, 4

<223> n = A,T,C or G

<400> 1727

```

ttnngttgaa aaaatagatc caatcagttt ataccctagt tagtgttttg cctcacctaa 60
taggctggga gactgaagac tcagcccggg tggggctgca gaaaaatgat tggccccagt 120
ccccttgttt gtcccttcta caggcatgag gaatctggga ggccctgaga cagggtattgt 180
gcttcattcc aatctattgc ttcacatggg ccttatgagg cagggtgagag atgtttgaat 240
ttttctcttc cttttagtat tcttagttct tcag                                                                 274

```

<210> 1728

<211> 415

<212> DNA

<213> Homo sapiens

<400> 1728

```

aaatcccttt ctgcttccac tggaggcaaa actgaacaaa atgttagtta aatagagaga 60
gcagcatttc taagaaatct gtggtcagca ttatagacca tctatgctac aaggatgtca 120
ttaaatagga tttgttcaat tactggattc ttcttctatg atcagttata gaatttctgg 180
tttatatctc tgattcataa aactgggact ccactttttg aagatacatc tgattgattt 240
ttttcagtcg tgatttaaca gacttctttg agatgctcat tttaacattt acataattta 300
taatcccaaa tgtataaaag acaatgaaaa aagcatcata aataaataat gcaaaatgaa 360
atagttatgt cagacttttg gaccttctga taaattagca aaactgtaac agaaa      415

```

<210> 1729

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4

<223> n = A,T,C or G

<400> 1729

```

acanaccgta tacttttatgc aaacaaagtg atgcctcact gacttaggag acaagtcaca 60
tgccatcagt gtgtcagaaa atttctttct tcagtgatag ttaaggtaac ctgccagct 120
actttccaga gacagctcca gggcaatact ggggaaaaaa aaatcagaga cataggaccc 180
caatagagcc ctgtgcaaca aaaagatgct agataacaaa actcaaagca aaactaagat 240
cattccaatt taggggaaag tttttttatt cagtgtttta gattaaaaac tacaagattt 300

```

309

```
<220>
<221> misc_feature
<222> 2
<223> n = A,T,C or G
```

```
<210> 1731
<211> 244
<212> DNA
<213> Homo sapiens
```

```
<210> 1732
<211> 272
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 9, 65, 192, 210, 212  
<223> n = A,T,C or G
```

```
<210> 1733
<211> 388
<212> DNA
<213> Homo sapiens
```

<220>

<221> misc_feature
 <222> 2
 <223> n = A,T,C or G

<400> 1733
 anttgggaaga gcatatgaac acggggccagc tagcaggatt ttcacatcaa attagaagtc 60
 tgatttttgaa taatatcatc aataagaagg agtttgggat tttggcaaag accaaatact 120
 ttcaaatggt gaagatgcat gcgatgaata ccaacaatat cactgagcta gtgaactatt 180
 tggcaaataga cttaagttta gatgaagctt cagtcttgat aactgaatat tcaaagcact 240
 gcgggaaacc tgtgcctcca gacactgctc cctgtgaaat tctgaagatg tttcttagtg 300
 gattatcgta aatcactgaa cctttttttc aagaaggaca agaatttttg agtctgctat 360
 taatgggacc atatttatta cagttttt 388

<210> 1734
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 1734
 tttggaatgt aaaattaatg gtatctggta tcaagttgta agaaaaactc ccccagattg 60
 ggaggttaact gagtgatatg tgaaagaatc ttcccgctcg aatttaagaa tacacctaca 120
 ctgggcagaa aaaggtgggg gagaggaagt agaagtagag gaaaagcaca actccactgg 180
 cttcaatcaa actgaggtaa ctaattagag acggaaaata aataaatcaa caaatgcccc 240
 atttttgttt tccaaaaaag atcactggca actaacaatt tt 282

<210> 1735
 <211> 268
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 1735
 ntaagccagc cttcctcaag aatgccagac agtggacaga gaagcatgca agacagaaac 60
 aaaaggctga tgaggaagag atgcttgata atctaccaga ggctggtgac tccagagtac 120
 acaactcaac acagaaaagg aaggccagtc agctagtagg catagaaaag aaatttcac 180
 ctgatgttta ggggacttgt cctgggtcat cttagttaat gtgttctttg ccaaggtgat 240
 ctaagttgcc taccttgaat tttttttt 268

<210> 1736
 <211> 478
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2
 <223> n = A,T,C or G

<400> 1736
 tnatagactt ttccaatggc ccccttataa caccagaaag gattgtaatc ttgggcgtat 60

```

tttgtgctgg catcttttggc agttgtgaag atcttgtacc agagcgtggc gttgctgtac 120
gtgtcaggaa cacagtgcgg tggctgtaca gtgacgggga acaccccagg gctggccgtg 180
agggtcatgc aggctgtgaa taccacctgc tcacagtgc cgtggagggc gcagtcacct 240
gagctccacg ctgtaggcag ggtgaagggt atgtttatct cctcgtgggc ttccctgcct 300
gaaagtccaa tctgatgccc taagatgggt gagtacagat gggtgacgtt gggggaatac 360
cctccgaagg gtttcagtgg gtccagggtt aggggtgatt agactgagat attcaccggg 420
cccagagtct ccagggcctg gggggactgg gtggaagctc gggcctgccc gctggtca 478

```

<210> 1737

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5

<223> n = A,T,C or G

<400> 1737

```

ctttnaggat ggcgagtagc agcggctcca aggctgaatt cattgtcggg gggaaatata 60
aactggtacg gaagatcggg tctggctcct tggggacat ctatttggcg atcaacatca 120
ccaacggcga ggaagtggca gtgaagctag aatctcagaa ggccaggcat cccagttgc 180
tgtacgagag caagctctat aagattcttc aagggtgggt tggcatcccc cacatacggg 240
ggtatgggtca ggaaaaagac tacaatgtac tagtcatgga tcttctggga cctagcctcg 300
aagacctctt caatttctgt tcaagaagggt tcacaatgaa aactgtactt atgttagctg 360
accagatgat cagtagaatt gaatatgtgc atacaaagaa ttttatacac agagacatta 420
aaccagataa cttcctaatt ggtattgggc gtcactgtaa taagttattc cttattgatt 480
ttggtttgg                                     489

```

<210> 1738

<211> 262

<212> DNA

<213> Homo sapiens

<400> 1738

```

gttacagatg acatgtatgc agaacagacg gaaaatccag agaatccatt gagatgtccc 60
atcaagctct atgatttcta cctcttcaaa tgccccaga gtgtgaaagg ccggaatgac 120
accttttacc tgacacctga gccagtgggt gcccccaaca gcccaatctg gtactcagtc 180
cagcctatca gcagagagca gatgggacaa atgctgacac ggatcctggt gataagagaa 240
attcaggagg ccacgcagtg gg                                     262

```

<210> 1739

<211> 422

<212> DNA

<213> Homo sapiens

<400> 1739

```

ccaccatcct tttgagacag ttccctatcaa caatcttgaa ccatactaatt acattacttg 60
ttcctgaagt ctttttgttg tagctcataa taaaataagc aatacaaatg aattatctgt 120
atttaaggga aaagaaacat ttacaagaaa acacaaaaat ataactgtta taattcatta 180
tgaataaata tacactttga actggctaag tacaatcttt atacattggt taagatttaa 240
tacagtttat tagccatttt cttttttcac acaatgtata tcaaaaattaa aaaaaaatac 300
tgattttatg aaaaatggca aagtacagta gttccattcc aatttgaagg gccatgaaaa 360
gccactgcaa gaccttttag cctaattcaa acctgtaaac atgttcagtc ttttttacct 420

```

gc

422

<210> 1740
 <211> 92
 <212> DNA
 <213> Homo sapiens

<400> 1740
 gctaaatacc tatctaattgt gctatgttta tcaaactcgtg tactaaaatg gaaagctagt 60
 tttgagaaat tattcagaag ccttggttatt tt 92

<210> 1741
 <211> 188
 <212> DNA
 <213> Homo sapiens

<400> 1741
 tttcaattct tccaaaaggc tcaaagatcc cacgaagcat atcttcagtt atgttgaagt 60
 gtaatgagcc cacataaagc ctcataggtc cagcacttcc cttttgtaaa ttgtttgcc 120
 ttgctgcagc tctgtttttt tctgcctgtg atgcctgtac tatgattggc acgcctaaaa 180
 ctcgttgg 188

<210> 1742
 <211> 285
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3
 <223> n = A,T,C or G

<400> 1742
 ttnaaaatac tttcaggctc caccaaaacg tagaactgaa agcatgtatt ttggaagaaa 60
 gagatacatt ttgtatgctt tcttttcctt ttgttagattc ccagttttatt ttctaagact 120
 gcaaagatca ctttgtcacc agccctggga cctgagacca aggggggtgtc ttgtgggcag 180
 tgaggggggtg aggagaggct ggcatgaggt tcagtcattc cagttagctc caaagagggg 240
 ccacctgttc tcaaaagcat gttggggacc aggaggtaaa actgg 285

<210> 1743
 <211> 117
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2
 <223> n = A,T,C or G

<400> 1743
 angatctata gacacttttag gcaaaacagg ctcataaagc aattaaaaaa tcaacaattt 60
 agtaaaaaa ggctacatag tattttgttt ttacgtttca tttgtctatt gatcttt 117

<210> 1744

<211> 111
 <212> DNA
 <213> Homo sapiens

<400> 1744
 aaacaatggg ctaaaaaataa acagtattaa aagggttaagt ttatataata catatgtaca 60
 caattagtggt tgttttcttt tcagacaaaa tactgaaaca aatattagtt t 111

<210> 1745
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 1745
 ctgccagtag acccccggtc accctgaggc tgggtgggtccc tgctagtcag tgtgggtctc 60
 tcatttgaaa aggtggatgc aagatcaagg aaatacgaga gactacaggg gctcaggtcc 120
 aggtggcagg ggatatgcta cccaactcaa ctgagcgggc catcactatt gctggcattc 180
 cacaatccat cattgagtgt gtcaaacaga tctgcgtggg catgttgagg tccccccga 240
 agggcgcgac catcccgtac cggcccaagc cgtccagctc tccggtcac tttgcagggtg 300
 gtcag 305

<210> 1746
 <211> 319
 <212> DNA
 <213> Homo sapiens

<400> 1746
 aaaataagtg aataagcgat atttattatc tgcaagggtt ttttgtgtgt gtttttgttt 60
 ttattttcaa tatgcaagtt aggcttaatt tttttatcta atgatcatca tgaaatgaat 120
 aagagggttt aagaatttgt ccatttgcat tcggaaaaga atgaccagca aaagggtttac 180
 taatacctct ccctttgggg atttaatgtc tgggtgctgcc gcttgagttt caagaattaa 240
 agctgcaaga ggactccagg agcaaaaaga acacaatata gaggggttga gttgttagca 300
 atttcattca aaatgccaa 319

<210> 1747
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 1747
 aaatcctttt ccataaata aaagtacagt tttcttgggtg gcagaatgaa aatcagcaac 60
 ttctagcata tagactatat aatcagattg acagcatata gaatatatta tcagacaaga 120
 tgaggaggta caaaagttac tattgctcat aatgacttac aggctaaaat tagtttt 177

<210> 1748
 <211> 237
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 12, 15, 25, 172, 225
 <223> n = A,T,C or G

<400> 1748
 ctgaaggant gnaantagac tggtnagag aggaaggcac tgagccacat gaaggatatgt 60
 acgtaggttt tgttcagtgg aaatagactg gtagagagag gaaggcactg aaccacatga 120
 aggtatgtgt gtaggttttg ttcagtggaa atagactggg agagagagga angcattgaa 180
 tcacatgaag gtacgtgtgt aggttttggg cactgacttc ttcantgtct cagccag 237

<210> 1749
 <211> 244
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 87
 <223> n = A,T,C or G

<400> 1749
 aaaaggcccc attatctgac aaaatagatg gtgaacatgc actatcccag gatatctatt 60
 attatccaaa gaagtgtttc tcaaagngtg gtccatggta ctgggtccatg aattgggtgc 120
 taccagtcaa tgaagagata aattacttgc atcagagtgt aaatcaatac attgctttag 180
 ctattaataa aattttgcta aaaaatcaaa tcctgtcatt gacctaaaaa gtatctctag 240
 attt 244

<210> 1750
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 247
 <223> n = A,T,C or G

<400> 1750
 aggccagcct ccaccacgca cggcgaaagg agtgaactag ctgggacaca cacacgtgtg 60
 aatgcatgca agcatttact gcatcttctc cgtggactcc ctaccgctct tccatagccc 120
 cccctttcag cctcactgtt tctcgtgtga gcctatctgc ttgggcagtc cactcgggag 180
 ggggtcatgg agccaggact ccctctaaat aggaatggaa aggacctgc agatattttt 240
 atcctanttg tgaaaacaag gtgcctctga ttctctatat ccatcacag 289

<210> 1751
 <211> 594
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 558
 <223> n = A,T,C or G

<400> 1751
 ctgggttatta atcacaagtc ctggaaatgg tctaatagacc gtgaatttga taaactcggc 60
 agagtctaag atccttctca tggagctgat ttccaggtag ctgggggctt tgaaggacac 120
 ccccgggggc atgocatcaa ccaccacaca gccagggtta attgtgattt tcctgtaggg 180

```

aactttcaca ggaaaaccca taccaatagc ttcaccaa at tccgactaa agaggtcatt 240
cacttggtct cttagctgtc tagctttttc aactttcgag agtctttcat tatcatcatc 300
tggaattgtc acctgaatga tgtaagggtc ttcaacacct gatgcagtag tattaacatt 360
gggtgatgaa tttatttttc tgggaggggt cttagaggag gtgctctcct taatcgccgt 420
ctcaaacatt tcgggctttt taatgatgaa ctttaattttg gctttgtttc tgagtatctt 480
ctccagcctc ggaatgcca aagtcgatgg tcttcggaat ggcacaccct caggtaagcc 540
ttccacataa aagtcttncg ggaaagactc aaataacgcg aacggcacct tcac 594

```

```

<210> 1752
<211> 311
<212> DNA
<213> Homo sapiens

```

```

<400> 1752
ctgaagggttt catggctccc aaggcttgga ccgtgctgac agaatactac aaatccttgg 60
agaaagctta ggctgttaac ccagtcactc cacccttgac acattactag taacaagagg 120
ggaccacata gtctctgttg gcatttcttt gtgggtgtctg tctggacatg cttcctaaaa 180
acagaccatt ttccttaact tgcacaggtt ttgggtctgcc ttatgagttc tgttttgaa 240
aagtgttaaca cactgatggt tttaatgtat cttttccact tattatagtt atattcctac 300
aatacaattt t 311

```

```

<210> 1753
<211> 587
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 552, 561
<223> n = A,T,C or G

```

```

<400> 1753
ctgtccatta tacaccgtca cgttgatccc tgcctccagc aactcggtcca caatgcta at 60
gactggcttc atgaagtcct cctccatggt cacaagagcg ttggtagcct ggccctcccca 120
ggattgatcc tcaggaataa ttttgagctt ctttctgatg gggccattca tgagctggct 180
taaggcatct cgttgtaggt gtctcacgtg gcgctgacaa agacaaacta ggtggctctg 240
tgtgaattct agactcgact ccattgtaga cgtgggagtg cttttagtta agatgttata 300
gaagttcacc ccatctgtgt tctgttcaat gatcatttct gctttccccc acagctctgt 360
ggcctctctg tagagccct tatttacggc attcagtact tgctctgcaa ccttagacac 420
ctctgccaga cttttgtctt cgagaagaga catgctgtac aggttaaggct cccaggagag 480
caccgaatca acaggggaga tccaggaatc acccaaggca acccccgcaa agttgcactt 540
gatggtccct cncatgaatg ncttataaag ctctagacca atgccag 587

```

```

<210> 1754
<211> 564
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 409
<223> n = A,T,C or G

```

```

<400> 1754

```

```

cctctctcct tggcttgcag gtggcacctt ctactatgt cctcacatgg ccttttctct 60
gtggagaggg acagagagca tgagcaggct ctggtgtctc ctcttcttat aaagacacta 120
atatcaccat attagggtct aaacctatga cctcatttaa ccttaacccc ttaaagggtcc 180
catctccaaa aacagtcaca tagcaggcta ctgcttcaac atatgcattt gggggagggg 240
acaccattca gttcttaaca ggggtggcac cgcaaacatg gaaagtcaga gccttctccc 300
cttcagaatt cccgccccca cccagggatg gggaagagga gcagagaggt atgggaagca 360
gacacggaga gtggcaggta ccatgctggg gtggctcagg agtgcttcng aggacatatg 420
gaactggcag ggctcagtgc agggaggcgg aggccttggg agagccgtgt cctgagaagg 480
gcctgggcta caaccctggg caagttactt cacctctgag cctccgatgc tctgtgaaat 540
ggaaggaatg tgcttgctg tcag 564

```

```

<210> 1755
<211> 214
<212> DNA
<213> Homo sapiens

```

```

<400> 1755
aaatgtgatg ttttgagcat caaaaagcta ctatctaaaa ggattagtct cccagtgttc 60
ttggtaaata gggaagggtta ggaaggaggc aatgatccaa tgaatataga agaactggcc 120
gattcacagg aaacttgctt tggataagggt gagtcaatgg gtgatattgt gcaggcaggg 180
agggaaattt ctttgtacaa attcatgtcc ctgg 214

```

```

<210> 1756
<211> 225
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 9, 40, 41, 76, 88, 89, 91, 100, 143, 181, 188, 197, 201,
202, 217
<223> n = A,T,C or G

```

```

<400> 1756
aaaattanna catacatggt caggcagctt ctgtccatan ntaaaactatt ccttttcagt 60
ctgagtaata tgcggnattgt tcttaatnnc ncacattaan aatttattta gattgggtgaa 120
actatcttta taaaaaaaaa atncgaacat gaatgcaaac ttaccaaaaca gagcccacta 180
nattgatnaa gttaatncca nnatagtttg ccatganctg ggtgg 225

```

```

<210> 1757
<211> 282
<212> DNA
<213> Homo sapiens

```

```

<400> 1757
ttgcagcctg cgatgacaca gcgaatctat gacaagttta tagctcagtt gcagacatct 60
atccgggagg aaatctctga catcaaagag gagggaacc tagaagctgt cttgaatgcc 120
ttggataaaa ttgtggaaga aggcaaagtc cgcaaagagc cagcctggcg cccagcggg 180
atccagaga aggatctgca cagtgttatg gcaccctact tctgcagca acgggacacc 240
ctgcggcgcc atgtgcagaa acaggaggcc gagaaccagc ag 282

```

```

<210> 1758
<211> 473
<212> DNA

```

<213> Homo sapiens

<400> 1758

```
ctgaaacagc ttttcaagct ctctctctct gtcaaggatc atgagaggca ctccactcaa 60
ggggagggtgc gcaatctggt gctcttcagg cagggtcaaaa ctctcaaagt ctagaggatt 120
gaagggaag aatttttcta tttctggata ggcattcatc gaggcaggaa cagagctttt 180
tgctttaaca gtcttctcag tcatcttttt ggcagaaaag cttggctggt ttgttttgag 240
gggtcccttg gtctttacag acttttctgt agctctggtg acagttccca aagcctttct 300
agtagcttta ggtaaggctg gtggggcacc gaacgttttg ccaaaacgtg gtgttgaaac 360
ttgagatctc ccatctaagg ctttgattga aggtccagac cccagcttca gcccatcctt 420
agcaaccaca cgggtgcctg gttctccatt ttccttatcg acatagatca gag 473
```

<210> 1759

<211> 187

<212> DNA

<213> Homo sapiens

<400> 1759

```
aaacttcgcc atgatcgtgt cttctgcact catgatatgg aaaggcttga tcgtgctcac 60
aggcagttag agcccatcgt tgggtggtgt gagtggcagt atggagccgg cctttcacag 120
aggagacctc ctgttcttca caaatttccg ggaagaccca atcagagctg gtgaaatagt 180
tgttttt 187
```

<210> 1760

<211> 564

<212> DNA

<213> Homo sapiens

<400> 1760

```
cctctctcct tggcttgtag gtggcacctt ctcaactatgt cctcacacgg ccttttctct 60
gtggagaggg acagagagca tgagcaggct ctggtgtctc ctcttcttat aaagacacta 120
atatcaccat attagggctt aaacctatga cctcatttaa ccttaacccc ttaaagggtc 180
catctccaaa aacagtcaca tagcaggcta ctgcttcaac atatgcattt gggggagggg 240
acaccattca gttcttaaca ggggtgtcac cgcaaacatg gaaagtcaga gccttctccc 300
cttcagaatt cccgccccca cccagggatg ggggaagagga gcagagaggt atgggaagca 360
gacacggaga gtggcaggta ccatgctggg gtggctcagg agtgcttcgg aggacatatg 420
gaaactggcag ggctcagtcg agggaggcgg aggccctggg agagccgtgt cctgagaagg 480
gcctgggcta caaccctggg caagttactt cacctctgag cctccgatgc tctgtgaaat 540
ggaaggaatg tgcttgctg ttag 564
```

<210> 1761

<211> 413

<212> DNA

<213> Homo sapiens

<400> 1761

```
ctgtcttctc atctatctta gcataggagt cctctgctgc cttttcaata ccgtcgtggg 60
atctctccaa agcagttttc aagtttagaa atatttcttg ggacttcagt ttctcccttt 120
cagcagcatc ttttagttgt tgaattccaa gtttaatttt ttggatttct tgattaattg 180
tggttactcg ttcatagaca gcacctcttt tttctgaac ttatttgcaa tcctcaatta 240
ctgtgcgttt gtattgctta acatcttcat gcttcttatt tattttgaat tgtgctgtgg 300
caagtttttc cttcttcaca atcatcagtc ttttgaacga attttcttca gtcttcaatt 360
tcttcagttc tgactcatca ctctcaattt ggtcctccaa gttcaggctt ctg 413
```


<210> 1762
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 1762
 ggaaaagaaa gagctgaaaa tgcagaaagc cgaagagtta gaacttttgg atacaggaga 60
 agaaacagcg gctccactac agaccagcc ccagggttcaa tgtcctccga agaatgaagt 120
 ctttccctgg tgatgggtccc ctgccctgtc ttccagcat ccactctccc ttgtcctcct 180
 gggggcatat ctgagtcagg cagcggcttc ctgatgatgg tcgttggggg ggttgtcatg 240
 tgatgggtcc cctccaggtt actaaagggt gcatgtcccc tgcttgaaca ctgaagggca 300
 ggtggtgggc catgg 315

<210> 1763
 <211> 114
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 16
 <223> n = A,T,C or G

<400> 1763
 cgaccgccta agagtngcgc tgtaagaagc aacaacctct cctcttcgtc tccgccatca 60
 gctcggcagt cgcaagcag caaccatgcy tgagtgcac tccatccacg ttgg 114

<210> 1764
 <211> 114
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25, 33, 38, 53, 62, 71, 81, 83, 93, 102
 <223> n = A,T,C or G

<400> 1764
 ctaatacgac tcaactatacg gctcnagcgg cntccgngc cgggggctgc tcnnggttaga 60
 tngacatgaa naccctacag ntncactgt ggnaattgaa antatccctc atgt 114

<210> 1765
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 1765
 aaacagtaac aaaacagaaa gcaagaatca ctgaacactg ggtgcagtca gttctaagtc 60
 cttataataa ttgccaaaat tatttgaatg attcttcaag attaggctga tccctggcta 120
 aggtctgtgt aaggcagaca agcgttattg atcatatcaa gttccctaca atactctgtc 180
 ctcaaaaccg gaagcaatga acatgatcct ctccggttgg ataatgaac ttctgtttg 240
 gcctgcttct aggccctgcc agattctcat aacatcatat acgtaagtat agttcctcaa 300
 agtgactgac atttatttta attttgcttt gttttttttt attttctccc ccattccttt 360
 attttgtgtt attcctgact cacttgacac tctctgatgc ctgagagatt cctgtttggg 420

atttaatatc cagggctgtg tttacagtaa aaaaagcagg cagtcccttt tagtttttcc 480
 ttttt 485

<210> 1766
 <211> 389
 <212> DNA
 <213> Homo sapiens

<400> 1766
 aaaaacaaag tcttcaactt ggggtgttgag attggcaaaa ggggaagcaa gggaaaagcc 60
 aaggaaagat aaaatattca gaagaaagtc aaagttatct gcaattacat gttagaacag 120
 attttgcagg ttaaaaagat gttgcttaaa tatattcata aacctgttgt aagattttca 180
 cttatgcagt ttcagaaaat ttagctgctt aacatatgac agaactgtat ttaacaaaat 240
 gacattaaaa gtcaggagag ctactcagtt aattgataaa gtagaggcaa cgtgggggag 300
 ccctcccccac gtttattgaa gatttgtggc tccccagcc ccgtttgcct gcatcaggct 360
 aacaacctca ttctcccat agagcctgg 389

<210> 1767
 <211> 176
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 16, 20, 21, 35, 119, 125, 133, 142, 165, 169, 176
 <223> n = A,T,C or G

<400> 1767
 tttttcaacg attaanaatn ntcattacat aactnggtga aactgaaaaa gtatatcata 60
 tgggtacaca aggctatttg ccagcgtata ttaatatatt agaaaatatt ccttttgtna 120
 tactnaatat cancatagag cnagaatcat attatcatatc ttatnatant gttcan 176

<210> 1768
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 1768
 aaaagaaatc atggtacttc ttagagcaat ttgcaaaaagg ggaaaaaagt cttagggtca 60
 ctcccttgaa ataaatatca agtaaccata aaaatattca gccatttttc agttattcgg 120
 ggagttcagg catggtccca cgcagagcat cagagttcct ctttgaaata acccagcttt 180
 gccaatgaca tctcttttct caactgcata acctccaaa acatctgato aacatcctgc 240
 tgtttcacaa gtccctgctg aatgtatcga atgtatgtaa aaaagttaca tacagaagtg 300
 atcctgtatc tgcaaaaagg agaaatacaa taatagttgc ttgagtcgcc taatttaatt 360
 ctgtgtttac aggacttact ctgg 384

<210> 1769
 <211> 111
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 91

<223> n = A,T,C or G

<400> 1769

```
aaatataaaa aattaaaagt taaaactcta gccottcagt gaaggagacg taaaatggcg 60
tgggtaacaa caactaccaa aaaaaaaaaa naaaaaaaaa aaaaaaaaaa a 111
```

<210> 1770

<211> 225

<212> DNA

<213> Homo sapiens

<400> 1770

```
ctggctgaag gggccgtgga gctcccgcca gcccaagatt agctgggcct tcttcggggc 60
aatgcgctga agactgcgga gatctcgggc tgagccttcg ttcagcagat ccagtatttt 120
ttggcgccca tgagccagta gctccgggct gatctgtagc tcccagcagt cctcagcctt 180
ctctcaggc tctagggcat ccagggactc cagctttctc ttccg 225
```

<210> 1771

<211> 223

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 39

<223> n = A,T,C or G

<400> 1771

```
ggccaagtaa aagcttttatt tttttaaatg aaaactacna aaggcgggggt gggttgtggc 60
gggggcaagt tgtggccctg taggaccttc ggtgactgat gatctaagtt tccggagggt 120
tctcagagcc tctctgggtc tttcaatcgg ggatgtctga gggaccttcc gcggcatcta 180
tgcgggcatg gttactgcct ctggtgcccc ccgcagccgc gcg 223
```

<210> 1772

<211> 419

<212> DNA

<213> Homo sapiens

<400> 1772

```
ccaagtctac aatgtcccaa tatcaaggac aaccacccta gcttcttagt gaagacaatg 60
tacagttatc cattagatca agactacacg gtctatgagc aataatgtga tttctggaca 120
ttgcccattg ataatcctca ctgatgattt caagctaaag caaaccacct tatacagaga 180
tctagaatct ctttatgttc tccagaggaa ggtggaagaa accatgggca ggagtaggaa 240
ttgagtgata aacaattggg ctaatgaaga aaacttctct tattgttcag ttcatccaga 300
ttataacttc aatgggacac tttagaccat tagacaattg aactggatt aaacaaattc 360
acataatgcc aaatacacia tgtatttata gcaacgtata atttgcaaag atggacttt 419
```

<210> 1773

<211> 172

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3, 42, 66, 68, 77, 85, 104, 140

<223> n = A,T,C or G

<400> 1773

```
cgngcggctg cgggggggcac cagaggcagt ataccatgcc cncatagatg ccgcggaagg 60
tccctnanac atcccnatt gaaanaacca ttagaggctc tganaaacct acggaaactt 120
agatcatcag gtcaccgaan agtcctacag ggccacaaca tgccccctgc ac 172
```

<210> 1774

<211> 525

<212> DNA

<213> Homo sapiens

<400> 1774

```
ccttcactct cccctgaggc tgtcctggcc cggactgtgg ggagcacctc ccccccccg 60
agcagggtgca caccaggtta agcagggtcca ggggctgggg tgggcagggc tagcttttg 120
atcctgagtg tcaactactct ctctctccag ggatgcctg gacctaatg acatcaactc 180
agagcctcct cggggctcct tccccctcct tgagcctogg aacctcctca gcctgtttga 240
ggacacccta gacccaacct gagccccaga ctctgcctct gcacttttaa ccttttatcc 300
tgtgtctctc ccgtcgccct tgaaagctgg gggccctcgg gaactcccat ggtcttctct 360
gcctggccgt gtctaataaa aagtatttga accttgggag caccacaagct tgctcatgtg 420
gcaacatggc ccttcctggt ccttttattg atgtcatcca gggctttaac gccctgagg 480
ctgagccctg ctgcagaacc cacgtcctg gccttggggc agcag 525
```

<210> 1775

<211> 458

<212> DNA

<213> Homo sapiens

<400> 1775

```
aaattttcta gtcaaattaa taagcctttg tattatatgc catcctcctt tggaatgata 60
gcggtataat taaaatagaa cttttttaac acagaatact tattggtgaa gtggtctctt 120
atgtagtctt cttttgacga gaacgttgag attttcgaac ttccagaact ttcttttttt 180
gatgtttttt cccattcttt tgctttttct tttggctgac ctgtttctcc cactttttta 240
tcagtctcct cacatctgct gaatctgggt ttagacatgt ttgaactcca ttcttcagt 300
tagcaatgat ttcaattttc tcgcaggaag ggcttggggc aaattgttta aggtctttca 360
aggattgtag gtggatagtc ccttggttg tgctgatgca ggaacagcga ccctttctca 420
ctactggggt tccttgcaact ccaatcagaa ccagcaag 458
```

<210> 1776

<211> 461

<212> DNA

<213> Homo sapiens

<400> 1776

```
aaagtttcac ttccctagca aaatatcttc agtcaagaaa ttagtctttg aaaattatga 60
aaattgttgt gggaaatatt tatacaaatt attactgata atgcacatat attttgaaac 120
attgtttcta gaagcaataa aatataacct atttaggaga taacccaaat gatttgtaaa 180
aaaattaact tgtagaaaag ggaaggatgt tgtgtaaaat caagtcaatt atttgagggt 240
tttataatat tgagtactta tgtactaagt cacaccagc cagtcaataa ctgagaaatc 300
aaaataaaat aataatttca aagaattaca taaatacagg gccttttgag atttttggca 360
attgtaaaca aaaacgaatg gtttttacaa ttcagtgtaa ttctacgaat atttatttgg 420
cacccatggt aggcactgag gctacacagc agtgaaatag g 461
```

<210> 1777
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 1777
 ccaagttctg ctggaggagc actcaagtgt gacgagcagg gccactggac cctgcagggc 60
 tgtggtgtat atagtgcagc tttggagggtg gaactctatt ttcacacttt tctatggagc 120
 cttccgagtc ccagggttttc acttgagggt gtctgtctgg atggcggttt tcagacctcc 180
 attaacatcc ctaccagca ttctgtactt cgggggcctt ctctcttgtt ataaaacttt 240
 ttaccaagtg aaacatcgat accacctttg tttccattct cactggtgta aatactgagt 300
 actaactgag aattttgact ttgcattctg tcggaatact tgtgttcaat aaaaattgaa 360
 agaaaaaa 368

<210> 1778
 <211> 554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 211, 416, 499, 518
 <223> n = A,T,C or G

<400> 1778
 cagttatgcg aaaacatggc tgcggccggt ttggcccttc tttgtaggag agtttcatcc 60
 gccctgaaat cttcccgatc gttaataact cctcagggtcc ctgcctgcac aggggtttttt 120
 cttagtttgt tgcctaagag tacaccaaata gtgacatcct ttcaccaata tagattactt 180
 cataccacat tgtcaaggaa aggactagaa naattttttg atgacccaaa aaactggggg 240
 caagaaaaag taaaatctgg agcagcatgg acctgtcagc aactaaggaa caaaagtaat 300
 gaagatttac acaaactttg gtatgtctta ctgaaagaaa gaaacatgct tctaacccta 360
 gagcaggagg ccaagcggca gagattgcca atgccaagtc cagagcggtt agatanggt 420
 gtagattcca tggatgcatt agataaagtg gtccaggga agagaagatg ccctaaggct 480
 tcttcagact ggtcaagana gagctagacc tggtgctntg gagaaagaag acatcttttg 540
 aaagaatcat ctgg 554

<210> 1779
 <211> 379
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 42, 378
 <223> n = A,T,C or G

<400> 1779
 gtcttggtcg ggcattgacaa ccgcgtcagc tgccctgggcg tnactgacga tggcatggct 60
 gtggcgacag ggtcctggga tagcttcctc aagatctgga actaacgcca gtagcatgtg 120
 gatgccatgg agactggaag accattccaa cttggacgag ttaccatgag agcatatcct 180
 atccaaccgt actaacgtgg acaccctaca cctcccctca gaacttcaaa agggcaagat 240
 cttttttcct tcaattattg ctgagaccaa gagcacaatt cccattgaga gaaagatctc 300
 tgtgctgtaa actaaaacaa attgtgcatt ccttcggggg ccatcgtctt tgtcttcttt 360
 tttgtcttga atgaattnt 379

<210> 1780
 <211> 222
 <212> DNA
 <213> Homo sapiens

<400> 1780
 ctggttaattg cagaatccac tttgcctgtg taagtgaaaa atatagactg ttatcttggtt 60
 ggccctatga aattctgcac ttttcattat atactctacc ttcattaatt acttctggca 120
 agatgttctg ccttagcact cagttgcatt cttttccttt ttcttcctgt tcattatgct 180
 ttaattctga ggaccatatg agggtagaat atattatctt tt 222

<210> 1781
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 1781
 ctgctggagc aagccctgcg gaagcacaac gtggctgagc cgtgttccat caaagtcctt 60
 gacaaggcta cggtagcaat aataaagctc acagatcagg agactgaagt gaaagttgac 120
 atcagcttta acatggagac gggcgtccgg gcagcggagt tcatcaagaa ttacatgaag 180
 aaatattcat tgctgcctta cttgatttta gtattgaaac agttccttct gcagagggac 240
 ctgaatgaag tttttacagg tggaattagc tcatacagcc taattttaat gg 292

<210> 1782
 <211> 381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 132
 <223> n = A,T,C or G

<400> 1782
 aaaacctgga cttttctgga agggcagcat ataaaaacat cagtcccgag gaggggacaa 60
 caatactacc tcactactac atctgtgatg actggttggt caaacacaat ggagtgtgta 120
 aggtatatgt tntataattc ataaccatag cctcgatcat caagaaatac tttcgaaatt 180
 tcattttcct tcagaatata ttaagagtgc taaattttta actgcctttt tgtcgagtca 240
 aactgtggga ttctgatttg tattaataatt gtaagctcct cactgggtata ctatcatcct 300
 ggaggggtgt tgtatggctg agcaagagag agagagaaatg agagagagac tgtgtgtgtg 360
 tgtgtgtgtg tgtgtgtgca c 381

<210> 1783
 <211> 127
 <212> DNA
 <213> Homo sapiens

<400> 1783
 aaatatctat gtcacagcaa acaggtggca attcaacatc caggggtcgac agaattgcttg 60
 aaggagactg caacagattg gattcccatg gtggagaggg catcttcaca ggtgaagggg 120
 ggcccag 127

<210> 1784

<211> 259
 <212> DNA
 <213> Homo sapiens

<400> 1784
 agcccaatgt tcctgttggg atagactatg tgatacctaa aacaggggtt tactgtaagc 60
 tgtgttcact cttttataca aatgaagaag ttgcaaagaa tactcattgc agcagccttc 120
 ct cattatca gaaattaaag aaatttctga ataaattggc agaagaacgc agacagaaga 180
 aggaaactta agatgtgcaa ggagatttaa tgatttcaaa gaaaataatg gttctttgtt 240
 tttaatgtta acctttttt 259

<210> 1785
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 1785
 ctgggtacttg acagagagga tggcgctgtc gaccatagtc tcccagagga agcagataaa 60
 gcggaaggct ccccgaggct ttctaaagcg agtcttcaag cgaaagaagc ctcaacttcg 120
 tctggagaaa agtggtgact tattgggtcca tctgaactgt ttactgtttg ttcattcgatt 180
 agcagaagag tccaggacaa acgcttgtgc gagtaaagt agagtcatta acaaggagca 240
 tgtactggcc gcagcaaagg taattctaaa gaagagcaga ggtagaagt caaagaacat 300
 attcttgaaa gttatgatgc attcttttgg gtggtaacag atcataaaga cattttttac 360
 acatcagtta atatgggatt attaaatatt ggctataaaa 400

<210> 1786
 <211> 372
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 239
 <223> n = A,T,C or G

<400> 1786
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 atacagattt gagaaatgat gctaaattta tagttttcag taacttaaaa agctaacatg 180
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 acagttttga aaatttatga actatcttat ttttaggtag gttttgaaag ctttttgtct 300
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<210> 1787
 <211> 86
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n = A,T,C or G

<400> 1787
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<210> 1788
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 1788
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<210> 1789
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 <212> DNA
 <213> Homo sapiens

<400> 1789
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<210> 1790
 <211> 388
 <212> DNA
 <213> Homo sapiens

<400> 1790
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 tagaaatgtg tgttttctaa aagaaaaaaa aatacactaa aatgccagtg gactataatt 300
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 caagatctat cacagccatc ttttgagg 388

<210> 1791
 <211> 2442
 <212> DNA
 <213> Homo sapiens

<400> 1791

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<210> 1792

<211> 2279

<212> DNA

<213> Homo sapiens

<400> 1792

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ccgaccccca gcttctctta agcatattca cctaattgct ctttctcaga ttaagaagg 240
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<210> 1793
 <211> 1904
 <212> DNA
 <213> Homo sapiens

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<400> 1793
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<210> 1794

<211> 2881

<212> DNA

<213> Homo sapiens

<400> 1794

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<210> 1795
<211> 422
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 295, 378, 390
<223> n = A,T,C or G

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aatacactga gaaaataatc aaacgttttc atctctcttg tctttttttg ttttttaaaa 360
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gg 422

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<210> 1796
<211> 797
<212> DNA
<213> Homo sapiens

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agttcattaa acaaagaaac acagattcta gagcagtcag aaaatgaact tcttaacatc 17340
tacactagcg gcagcttcct agaaatcact gcgctaccgg ctagtaacgg agtcattgcc 17400
attcagagtg tgcatttttt tttcctcttt ccagttttgc tggccccctt aattatccga 17460
tttctgatga atattaacat ggagggcatt gcatgaggtc tgccagaagg ccctgcgtgt 17520
ggatggtgac acagaggatg gctctatgct ggtgactgga cacatggcc 17569

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<210> 1805
 <211> 791
 <212> DNA
 <213> Homo sapiens

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<400> 1805
ctctggctgg acgccgccgc cgccgctgcc accgcctctg atccaagcca cctcccgcga 60
gagaggtgtc atgggcttcc aaaagttctc ccccttctct gctctcagca tcttggtcct 120
gttgaggcca ggcagcctcc atgcagcacc attcaggtct gccctggaga gcagcccagc 180
agaccgggcc acgctcagtg aggacgaagc gcgcctcctg ctggetgcac tgggtgcagga 240
ctatgtgcag atgaaggcca gtgagctgga gcaggagcaa gagagagagg gctccagcct 300
ggacagcccc agatctaagc ggtgcggtaa tctgagtact tgcatgctgg gcacatacac 360
gcaggacttc aacaagtttc acacgttccc ccaaactgca attgggggtg gagcacctgg 420
aaagaaaagg gatatgtcca gcgacttgga gagagaccat cgcctcatg ttagcatgcc 480
ccagaatgcc aactaaactc ctccctttcc ttcctaattt cccttcttgc atccttcta 540
taacttgatg catgtggttt ggttctctct tgggtgctct ttgggctggt attggtggt 600
ttccttgatg cagaggatgt ctcaaacttc agatgggagg aaagagagca ggaactcacag 660
gttggaagag aatcacctgg gaaaatacca gaaaatgagg gccgctttga gtccccaga 720
gatgtcatca gagctcctct gtctgtcttc tgaatgtgct gatcatttga ggaataaaat 780
tattttttccc c
791

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<210> 1806
 <211> 255
 <212> PRT
 <213> Homo sapiens

<400> 1806
 Met Val Ile Ala Leu Leu Gly Val Trp Thr Ser Val Ala Val Val Trp

1 5 10 15
 Phe Asp Leu Val Asp Tyr Glu Glu Val Leu Gly Lys Leu Gly Ile Tyr
 20 25 30
 Asp Ala Asp Gly Asp Gly Asp Phe Asp Val Asp Asp Ala Lys Val Leu
 35 40 45
 Leu Gly Leu Lys Glu Arg Ser Thr Ser Glu Pro Ala Val Pro Pro Glu
 50 55 60
 Glu Ala Glu Pro His Thr Glu Pro Glu Glu Gln Val Pro Val Glu Ala
 65 70 75 80
 Glu Pro Gln Asn Ile Glu Asp Glu Ala Lys Glu Gln Ile Gln Ser Leu
 85 90 95
 Leu His Glu Met Val His Ala Glu His Val Glu Gly Glu Asp Leu Gln
 100 105 110
 Gln Glu Asp Gly Pro Thr Gly Glu Pro Gln Gln Glu Asp Asp Glu Phe
 115 120 125
 Leu Met Ala Thr Asp Val Asp Asp Arg Phe Glu Thr Leu Glu Leu Glu
 130 135 140
 Val Ser His Glu Glu Thr Glu His Ser Tyr His Val Glu Glu Thr Val
 145 150 155 160
 Ser Gln Asp Cys Asn Gln Asp Met Glu Glu Met Met Ser Glu Gln Glu
 165 170 175
 Asn Pro Asp Ser Ser Glu Pro Val Val Glu Asp Glu Arg Leu His His
 180 185 190
 Asp Thr Asp Asp Val Thr Tyr Gln Val Tyr Glu Glu Gln Ala Val Tyr
 195 200 205
 Glu Pro Leu Glu Asn Glu Gly Ile Glu Ile Thr Glu Val Thr Val Pro
 210 215 220
 Pro Glu Asp Asn Pro Val Glu Asp Ser Gln Val Ile Val Glu Glu Val
 225 230 235 240
 Ser Ile Phe Pro Val Glu Glu Gln Gln Glu Val Pro Pro Asp Thr
 245 250 255

<210> 1807
 <211> 226
 <212> PRT
 <213> Homo sapiens

<400> 1807
 Met Pro Leu Ser Gln Ile Lys Lys Val Leu Asp Ile Arg Glu Thr Glu
 1 5 10 15
 Asp Cys His Asn Ala Phe Ala Leu Leu Val Arg Pro Pro Thr Glu Gln
 20 25 30
 Ala Asn Val Leu Leu Ser Phe Gln Met Thr Ser Asp Glu Leu Pro Lys
 35 40 45
 Glu Asn Trp Leu Lys Met Leu Cys Arg His Val Ala Asn Thr Ile Cys
 50 55 60
 Lys Ala Asp Ala Glu Asn Leu Ile Tyr Thr Ala Asp Pro Glu Ser Phe
 65 70 75 80
 Glu Val Asn Thr Lys Asp Met Asp Ser Thr Leu Ser Arg Ala Ser Arg
 85 90 95
 Ala Ile Lys Lys Thr Ser Lys Lys Val Thr Arg Ala Phe Ser Phe Ser
 100 105 110
 Lys Thr Pro Lys Arg Ala Leu Arg Arg Ala Leu Met Thr Ser His Gly

115 120 125
 Ser Val Glu Gly Arg Ser Pro Ser Ser Asn Asp Lys His Val Met Ser
 130 135 140
 Arg Leu Ser Ser Thr Ser Ser Leu Ala Ile Thr His Ser Val Ser Thr
 145 150 155 160
 Ser Asn Val Ile Gly Phe Thr Lys His Val Tyr Val Gln Arg Leu Asn
 165 170 175
 Ser Thr Gly Gly Arg Ser Gln Tyr Ser Trp Phe Gln Ser Val Arg His
 180 185 190
 Ser Ala Phe Arg Ala Ser Phe Ser Glu Ile Leu Glu Gly Asn Thr Asp
 195 200 205
 Phe Ser Asn Phe Lys Lys Val Leu Ser Lys Ser Ser Leu Thr Phe Val
 210 215 220
 Lys Asn
 225

<210> 1808
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1808
 Met Ser Val Phe Val Leu Phe Pro Asp Phe Phe Lys Val Gly Lys Thr
 1 5 10 15
 Thr Tyr Phe Tyr Leu Asp Glu Gly Ser Gly Arg Val Glu Gln Lys Gln
 20 25 30
 Ala Ile Thr Ala Ile Ser Ser Ser Phe Thr Gly Asp Cys Pro Leu Ile
 35 40 45
 Ala Asn Val Glu
 50

<210> 1809
 <211> 592
 <212> PRT
 <213> Homo sapiens

<400> 1809
 Met Ala Ser Glu Ile His Met Thr Gly Pro Met Cys Leu Ile Glu Asn
 1 5 10 15
 Thr Asn Gly Arg Leu Met Ala Asn Pro Glu Ala Leu Lys Ile Leu Ser
 20 25 30
 Ala Ile Thr Gln Pro Met Val Val Val Ala Ile Val Gly Leu Tyr Arg
 35 40 45
 Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Lys Lys Gly
 50 55 60
 Phe Ser Leu Gly Ser Thr Val Gln Ser His Thr Lys Gly Ile Trp Met
 65 70 75 80
 Trp Cys Val Pro His Pro Lys Lys Pro Gly His Ile Leu Val Leu Leu
 85 90 95
 Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Asn Gln Asn Asp
 100 105 110
 Ser Trp Ile Phe Ala Leu Ala Val Leu Leu Ser Ser Thr Phe Val Tyr

115 120 125
 Asn Ser Ile Gly Thr Ile Asn Gln Gln Ala Met Asp Gln Leu Tyr Tyr
 130 135 140
 Val Thr Glu Leu Thr His Arg Ile Arg Ser Lys Ser Ser Pro Asp Glu
 145 150 155 160
 Asn Glu Asn Glu Val Glu Asp Ser Ala Asp Phe Val Ser Phe Phe Pro
 165 170 175
 Asp Phe Val Trp Thr Leu Arg Asp Phe Ser Leu Asp Leu Glu Ala Asp
 180 185 190
 Gly Gln Pro Leu Thr Pro Asp Glu Tyr Leu Thr Tyr Ser Leu Lys Leu
 195 200 205
 Lys Lys Gly Thr Ser Gln Lys Asp Glu Thr Phe Asn Leu Pro Arg Leu
 210 215 220
 Cys Ile Arg Lys Phe Phe Pro Lys Lys Lys Cys Phe Val Phe Asp Arg
 225 230 235 240
 Pro Val His Arg Arg Lys Leu Ala Gln Leu Glu Lys Leu Gln Asp Glu
 245 250 255
 Glu Leu Asp Pro Glu Phe Val Gln Gln Val Ala Asp Phe Cys Ser Tyr
 260 265 270
 Ile Phe Ser Asn Ser Lys Thr Lys Thr Leu Ser Gly Gly Ile Gln Val
 275 280 285
 Asn Gly Pro Arg Leu Glu Ser Leu Val Leu Thr Tyr Val Asn Ala Ile
 290 295 300
 Ser Ser Gly Asp Leu Pro Cys Met Glu Asn Ala Val Leu Ala Leu Ala
 305 310 315 320
 Gln Ile Glu Asn Ser Ala Ala Val Gln Lys Ala Ile Ala His Tyr Glu
 325 330 335
 Gln Gln Met Gly Gln Lys Val Gln Leu Pro Thr Glu Ser Leu Gln Glu
 340 345 350
 Leu Leu Asp Leu His Arg Asp Ser Glu Arg Glu Ala Ile Glu Val Phe
 355 360 365
 Ile Arg Ser Ser Phe Lys Asp Val Asp His Leu Phe Gln Lys Glu Leu
 370 375 380
 Ala Ala Gln Leu Glu Lys Lys Arg Asp Asp Phe Cys Lys Gln Asn Gln
 385 390 395 400
 Glu Ala Ser Ser Asp Arg Cys Ser Gly Leu Leu Gln Val Ile Phe Ser
 405 410 415
 Pro Leu Glu Glu Glu Val Lys Ala Gly Ile Tyr Ser Lys Pro Gly Gly
 420 425 430
 Tyr Arg Leu Phe Val Gln Lys Leu Gln Asp Leu Lys Lys Lys Tyr Tyr
 435 440 445
 Glu Glu Pro Arg Lys Gly Ile Gln Ala Glu Glu Ile Leu Gln Thr Tyr
 450 455 460
 Leu Lys Ser Lys Glu Ser Met Thr Asp Ala Ile Leu Gln Thr Asp Gln
 465 470 475 480
 Thr Leu Thr Glu Lys Glu Lys Glu Ile Glu Val Glu Arg Val Lys Ala
 485 490 495
 Glu Ser Ala Gln Ala Ser Ala Lys Met Leu Gln Glu Met Gln Arg Lys
 500 505 510
 Asn Glu Gln Met Met Glu Gln Lys Glu Arg Ser Tyr Gln Glu His Leu
 515 520 525
 Lys Gln Leu Thr Glu Lys Met Glu Asn Asp Arg Val Gln Leu Leu Lys
 530 535 540
 Glu Gln Glu Arg Thr Leu Ala Leu Lys Leu Gln Glu Gln Glu Leu

545 550 555 560
 Leu Lys Glu Gly Phe Gln Lys Glu Ser Arg Ile Met Lys Asn Glu Ile
 565 570 575
 Gln Asp Leu Gln Thr Lys Met Arg Arg Arg Lys Ala Cys Thr Ile Ser
 580 585 590

<210> 1810
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1810
 Cys Phe Lys Ala Ser Gly Gln Ser Ser Ile Ser Phe Lys Thr Leu Phe
 1 5 10 15
 Phe Leu Lys Ala Tyr Ser Val Trp Leu Ile Leu Leu Pro Phe Leu Gln
 20 25 30
 Asp Gly Gly Arg Arg Val Asp Thr Gly Gly Arg Leu Arg Asp Thr Val
 35 40 45
 Thr Leu Arg Ser Leu Gln Ile Glu Val
 50 55

<210> 1811
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 1811
 Met Arg Gly Ser Glu Leu Pro Leu Val Leu Leu Ala Leu Val Leu Cys
 1 5 10 15
 Leu Ala Pro Arg Gly Arg Ala Val Pro Leu Pro Ala Gly Gly Gly Thr
 20 25 30
 Val Leu Thr Lys Met Tyr Pro Arg Gly Asn His Trp Ala Val Gly His
 35 40 45
 Leu Met Gly Lys Lys Ser Thr Gly Glu Ser Ser Ser Val Ser Glu Arg
 50 55 60
 Gly Ser Leu Lys Gln Gln Leu Arg Glu Tyr Ile Arg Trp Glu Glu Ala
 65 70 75 80
 Ala Arg Asn Leu Leu Gly Leu Ile Glu Ala Lys Glu Asn Arg Asn His
 85 90 95
 Gln Pro Pro Gln Pro Lys Ala Leu Gly Asn Gln Gln Pro Ser Trp Asp
 100 105 110
 Ser Glu Asp Ser Ser Asn Phe Lys Asp Val Gly Ser Lys Gly Lys Val
 115 120 125
 Gly Arg Leu Ser Ala Pro Gly Ser Gln Arg Glu Gly Arg Asn Pro Gln
 130 135 140
 Leu Asn Gln Gln
 145

<210> 1812
 <211> 474
 <212> PRT

<213> Homo sapiens

<400> 1812

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Met Val Gln Gln Thr Asn Asn Ala Glu Asn Thr Glu Ala Leu Leu Ala
 1          5          10          15
Gly Glu Ser Ser Asp Ser Gly Ala Gly Leu Glu Leu Gly Ile Ala Ser
      20          25          30
Ser Pro Thr Pro Gly Ser Thr Ala Ser Thr Gly Gly Lys Ala Asp Asp
      35          40          45
Pro Ser Trp Cys Lys Thr Pro Ser Gly His Ile Lys Arg Pro Met Asn
      50          55          60
Ala Phe Met Val Trp Ser Gln Ile Glu Arg Arg Lys Ile Met Glu Gln
65          70          75          80
Ser Pro Asp Met His Asn Ala Glu Ile Ser Lys Arg Leu Gly Lys Arg
      85          90          95
Trp Lys Leu Leu Lys Asp Ser Asp Lys Ile Pro Phe Ile Arg Glu Ala
      100          105          110
Glu Arg Leu Arg Leu Lys His Met Ala Asp Tyr Pro Asp Tyr Lys Tyr
      115          120          125
Arg Pro Arg Lys Lys Val Lys Ser Gly Asn Ala Asn Ser Ser Ser Ser
      130          135          140
Ala Ala Ala Ser Ser Lys Pro Gly Glu Lys Gly Asp Lys Val Gly Gly
145          150          155          160
Ser Gly Gly Gly Gly His Gly Gly Gly Gly Gly Gly Gly Ser Ser Asn
      165          170          175
Ala Gly Gly Gly Gly Gly Gly Ala Ser Gly Gly Gly Ala Asn Ser Lys
      180          185          190
Pro Ala Gln Lys Lys Ser Cys Gly Ser Lys Val Ala Gly Gly Ala Gly
      195          200          205
Gly Gly Val Ser Lys Pro His Ala Lys Leu Ile Leu Ala Gly Gly Gly
      210          215          220
Gly Gly Gly Lys Ala Ala Ala Ala Ala Ala Ser Phe Ala Ala Glu
225          230          235          240
Gln Ala Gly Ala Ala Ala Leu Leu Pro Leu Gly Ala Ala Ala Asp His
      245          250          255
His Ser Leu Tyr Lys Ala Arg Thr Pro Ser Ala Ser Ala Ser Ser
      260          265          270
Ser Ala Ala Ser Ala Ser Ala Leu Ala Ala Pro Gly Lys His Leu
      275          280          285
Ala Glu Lys Lys Val Lys Arg Val Tyr Leu Phe Gly Gly Leu Gly Thr
      290          295          300
Ser Ser Ser Pro Val Gly Val Gly Ala Gly Ala Asp Pro Ser Asp
305          310          315          320
Pro Leu Gly Leu Tyr Glu Glu Glu Gly Ala Gly Cys Ser Pro Asp Ala
      325          330          335
Pro Ser Leu Ser Gly Arg Ser Ser Ala Ala Ser Ser Pro Ala Ala Gly
      340          345          350
Arg Ser Pro Ala Asp His Arg Gly Tyr Ala Ser Leu Arg Ala Ala Ser
      355          360          365
Pro Ala Pro Ser Ser Ala Pro Ser His Ala Ser Ser Ser Ala Ser Ser
      370          375          380
His Ser Ser Ser Ser Ser Ser Ser Gly Ser Ser Ser Ser Asp Asp Glu
385          390          395          400
Phe Glu Asp Asp Leu Leu Asp Leu Asn Pro Ser Ser Asn Phe Glu Ser

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405 410 415
 Met Ser Leu Gly Ser Phe Ser Ser Ser Ser Ala Leu Asp Arg Asp Leu
 420 425 430
 Asp Phe Asn Phe Glu Pro Gly Ser Gly Ser His Phe Glu Phe Pro Asp
 435 440 445
 Tyr Cys Thr Pro Glu Val Ser Glu Met Ile Ser Gly Asp Trp Leu Glu
 450 455 460
 Ser Ser Ile Ser Asn Leu Val Phe Thr Tyr
 465 470

<210> 1813
 <211> 238
 <212> PRT
 <213> Homo sapiens

<400> 1813
 Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
 1 5 10 15
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
 20 25 30
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
 35 40 45
 Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
 50 55 60
 Ala Pro Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly
 65 70 75 80
 His Lys Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro
 85 90 95
 Glu Leu Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr
 100 105 110
 Ser Leu Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg
 115 120 125
 Glu Arg Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg
 130 135 140
 Glu His Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu
 145 150 155 160
 Thr Leu Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu
 165 170 175
 Asp Glu His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser
 180 185 190
 Pro Thr Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly
 195 200 205
 Ser Pro Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu
 210 215 220
 Ser Pro Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
 225 230 235

<210> 1814
 <211> 68
 <212> PRT
 <213> Homo sapiens

275 280 285
 His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Ala Phe Val Thr Ser
 290 295 300
 Pro Pro Leu Ser Pro Asp Pro Thr Thr Pro Asp Tyr Leu Thr Ser Leu
 305 310 315 320
 Leu Ala Cys Gly Asp Leu Gln Val Thr Gly Ser Gly His Cys Pro Tyr
 325 330 335
 Ser Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Thr Leu Ile Pro
 340 345 350
 Glu Gly Val Asn Gly Ile Glu Glu Arg Met Thr Val Val Trp Asp Lys
 355 360 365
 Ala Val Ala Thr Gly Lys Met Asp Glu Asn Gln Phe Val Ala Val Thr
 370 375 380
 Ser Thr Asn Ala Ala Lys Ile Phe Asn Leu Tyr Pro Arg Lys Gly Arg
 385 390 395 400
 Ile Ala Val Gly Ser Asp Ala Asp Val Val Ile Trp Asp Pro Asp Lys
 405 410 415
 Leu Lys Thr Ile Thr Ala Lys Ser His Lys Ser Ala Val Glu Tyr Asn
 420 425 430
 Ile Phe Glu Gly Met Glu Cys His Gly Ser Pro Leu Val Val Ile Ser
 435 440 445
 Gln Gly Lys Ile Val Phe Glu Asp Gly Asn Ile Asn Val Asn Lys Gly
 450 455 460
 Met Gly Arg Phe Ile Pro Arg Lys Ala Phe Pro Glu His Leu Tyr Gln
 465 470 475 480
 Arg Val Lys Ile Arg Asn Lys Val Phe Gly Leu Gln Gly Val Ser Arg
 485 490 495
 Gly Met Tyr Asp Gly Pro Val Tyr Glu Val Pro Ala Thr Pro Lys Tyr
 500 505 510
 Ala Thr Pro Ala Pro Ser Ala Lys Ser Ser Pro Ser Lys His Gln Pro
 515 520 525
 Pro Pro Ile Arg Asn Leu His Gln Ser Asn Phe Ser Leu Ser Gly Ala
 530 535 540
 Gln Ile Asp Asp Asn Asn Pro Arg Arg Thr Gly His Arg Ile Val Ala
 545 550 555 560
 Pro Pro Gly Gly Arg Ser Asn Ile Thr Ser Leu Gly
 565 570

<210> 1816
 <211> 325
 <212> PRT
 <213> Homo sapiens

<400> 1816
 Met Thr Glu Arg Arg Arg Asp Glu Leu Ser Glu Glu Ile Asn Asn Leu
 1 5 10 15
 Arg Glu Lys Val Met Lys Gln Ser Glu Glu Asn Asn Asn Leu Gln Ser
 20 25 30
 Gln Val Gln Lys Leu Thr Glu Glu Asn Thr Thr Leu Arg Glu Gln Val
 35 40 45
 Glu Pro Thr Pro Glu Asp Glu Asp Asp Asp Ile Glu Leu Arg Gly Ala
 50 55 60
 Ala Ala Ala Ala Ala Pro Pro Pro Pro Ile Glu Glu Glu Cys Pro Glu

65 70 75 80
 Asp Leu Pro Glu Lys Phe Asp Gly Asn Pro Asp Met Leu Ala Pro Phe
 85 90 95
 Met Ala Gln Cys Gln Ile Phe Met Glu Lys Ser Thr Arg Asp Phe Ser
 100 105 110
 Val Asp Arg Val Arg Val Cys Phe Val Thr Ser Met Met Thr Gly Arg
 115 120 125
 Ala Ala Arg Trp Ala Ser Ala Lys Leu Glu Arg Ser His Tyr Leu Met
 130 135 140
 His Asn Tyr Pro Ala Phe Met Met Glu Met Lys His Val Phe Glu Asp
 145 150 155 160
 Pro Gln Arg Arg Glu Val Ala Lys Arg Lys Ile Arg Arg Leu Arg Gln
 165 170 175
 Gly Met Gly Ser Val Ile Asp Tyr Ser Asn Ala Phe Gln Met Ile Ala
 180 185 190
 Gln Asp Leu Asp Trp Asn Glu Pro Ala Leu Ile Asp Gln Tyr His Glu
 195 200 205
 Gly Leu Ser Asp His Ile Gln Glu Glu Leu Ser His Leu Glu Val Ala
 210 215 220
 Lys Ser Leu Ser Ala Leu Ile Gly Gln Cys Ile His Ile Glu Arg Arg
 225 230 235 240
 Leu Ala Arg Ala Ala Ala Ala Arg Lys Pro Arg Ser Pro Pro Arg Ala
 245 250 255
 Leu Val Leu Pro His Ile Ala Ser His His Gln Val Asp Pro Thr Glu
 260 265 270
 Pro Val Gly Gly Ala Arg Met Arg Leu Thr Gln Glu Glu Lys Glu Arg
 275 280 285
 Arg Arg Lys Leu Asn Leu Cys Leu Tyr Cys Gly Thr Gly Gly His Tyr
 290 295 300
 Ala Asp Asn Cys Pro Ala Lys Ala Ser Lys Ser Ser Pro Ala Gly Asn
 305 310 315 320
 Ser Pro Ala Pro Leu
 325

<210> 1817
 <211> 357
 <212> PRT
 <213> Homo sapiens

<400> 1817
 Met Leu Gln Ile His Leu Pro Gly Arg His Thr Leu Phe Val Arg Ala
 1 5 10 15
 Met Ile Asp Ser Gly Ala Ser Gly Asn Phe Ile Asp His Glu Tyr Val
 20 25 30
 Ala Gln Asn Gly Ile Pro Leu Arg Ile Lys Asp Trp Pro Ile Leu Val
 35 40 45
 Glu Ala Ile Asp Gly Arg Pro Ile Ala Ser Gly Pro Val Val His Glu
 50 55 60
 Thr His Asp Leu Ile Val Asp Leu Gly Asp His Arg Glu Val Leu Ser
 65 70 75 80
 Phe Asp Val Thr Gln Ser Pro Phe Phe Pro Val Val Leu Gly Val Arg
 85 90 95
 Trp Leu Ser Thr His Asp Pro Asn Ile Thr Trp Ser Thr Arg Ser Ile

100 105 110
 Val Phe Asp Ser Glu Tyr Cys Arg Tyr His Cys Arg Met Tyr Ser Pro
 115 120 125
 Ile Pro Pro Ser Leu Pro Pro Ala Pro Gln Pro Pro Leu Tyr Tyr
 130 135 140
 Pro Val Asp Gly Tyr Arg Val Tyr Gln Pro Val Arg Tyr Tyr Tyr Val
 145 150 155 160
 Gln Asn Val Tyr Thr Pro Val Asp Glu His Val Tyr Pro Asp His Arg
 165 170 175
 Leu Val Asp Pro His Ile Glu Met Ile Pro Gly Ala His Ser Ile Pro
 180 185 190
 Ser Gly His Val Tyr Ser Leu Ser Glu Pro Glu Met Ala Ala Leu Arg
 195 200 205
 Asp Phe Val Ala Arg Asn Val Lys Asp Gly Leu Ile Thr Pro Thr Ile
 210 215 220
 Ala Pro Asn Gly Ala Gln Val Leu Gln Val Lys Arg Gly Trp Lys Leu
 225 230 235 240
 Gln Val Ser Tyr Asp Cys Arg Ala Pro Asn Asn Phe Thr Ile Gln Asn
 245 250 255
 Gln Tyr Pro Arg Leu Ser Ile Pro Asn Leu Glu Asp Gln Ala His Leu
 260 265 270
 Ala Thr Tyr Thr Glu Phe Val Pro Gln Ile Pro Gly Tyr Gln Thr Tyr
 275 280 285
 Pro Thr Tyr Ala Ala Tyr Pro Thr Tyr Pro Val Gly Phe Ala Trp Tyr
 290 295 300
 Pro Val Gly Arg Asp Gly Gln Gly Arg Ser Leu Tyr Val Pro Val Met
 305 310 315 320
 Ile Thr Trp Asn Pro His Trp Tyr Arg Gln Pro Pro Val Pro Gln Tyr
 325 330 335
 Pro Pro Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro
 340 345 350
 Ser Tyr Ser Thr Leu
 355

<210> 1818
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1818
 Met Ser Thr Gly Asn Thr Val Cys Ser Arg Tyr His Phe Tyr Val Arg
 1 5 10 15
 Val Asn Gln Ala Val Ile Trp Val Asp Val Leu Ile Tyr Trp Ser Val
 20 25 30
 His Ile Leu Asp Ile Val Ile Pro His Trp Leu Val Asn Ser Val Ser
 35 40 45
 Ile Tyr Trp Ile Ile Glu Trp Arg Leu Trp Cys Trp Trp Trp Glu Arg
 50 55 60
 Trp Trp Tyr Trp Arg Ile His Pro Ala Val Val Ala Ala Val Phe Arg
 65 70 75 80
 Ile Lys Asp Asp Arg Ser Ser Ala Pro Cys Asp Ile Gly Ile Met Cys
 85 90 95
 Ala Gln Pro Ala Asn Pro

100

<210> 1819
 <211> 831
 <212> PRT
 <213> Homo sapiens

<400> 1819
 Met Glu Arg Ala Gly Ala Thr Ser Arg Gly Gly Gln Ala Pro Gly Phe
 1 5 10 15
 Leu Leu Arg Leu His Thr Glu Gly Arg Ala Glu Ala Ala Arg Val Gln
 20 25 30
 Glu Gln Asp Leu Arg Gln Trp Gly Leu Thr Gly Ile His Leu Arg Ser
 35 40 45
 Tyr Gln Leu Glu Gly Val Asn Trp Leu Ala Gln Arg Phe His Cys Gln
 50 55 60
 Asn Gly Cys Ile Leu Gly Asp Glu Met Gly Leu Gly Lys Thr Cys Gln
 65 70 75 80
 Thr Ile Ala Leu Phe Ile Tyr Leu Ala Gly Arg Leu Asn Asp Glu Gly
 85 90 95
 Pro Phe Leu Ile Leu Cys Pro Leu Ser Val Leu Ser Asn Trp Lys Glu
 100 105 110
 Glu Met Gln Arg Phe Ala Pro Gly Leu Ser Cys Val Thr Tyr Ala Gly
 115 120 125
 Asp Lys Glu Glu Arg Ala Cys Leu Gln Gln Asp Leu Lys Gln Glu Ser
 130 135 140
 Arg Phe His Val Leu Leu Thr Thr Tyr Glu Ile Cys Leu Lys Asp Ala
 145 150 155 160
 Ser Phe Leu Lys Ser Phe Pro Trp Ser Val Leu Val Val Asp Glu Ala
 165 170 175
 His Arg Leu Lys Asn Gln Ser Ser Leu Leu His Lys Thr Leu Ser Glu
 180 185 190
 Phe Ser Val Val Phe Ser Leu Leu Leu Thr Gly Thr Pro Ile Gln Asn
 195 200 205
 Ser Leu Gln Glu Leu Tyr Ser Leu Leu Ser Phe Val Glu Pro Asp Leu
 210 215 220
 Phe Ser Lys Glu Glu Val Gly Asp Phe Ile Gln Arg Tyr Gln Asp Ile
 225 230 235 240
 Glu Lys Glu Ser Glu Ser Ala Ser Glu Leu His Lys Leu Leu Gln Pro
 245 250 255
 Phe Leu Leu Arg Arg Val Lys Ala Glu Val Ala Thr Glu Leu Pro Lys
 260 265 270
 Lys Thr Glu Val Val Ile Tyr His Gly Met Ser Ala Leu Gln Lys Lys
 275 280 285
 Tyr Tyr Lys Ala Ile Leu Met Lys Asp Leu Asp Ala Phe Glu Asn Glu
 290 295 300
 Thr Ala Lys Lys Val Lys Leu Gln Asn Ile Leu Ser Gln Leu Arg Lys
 305 310 315 320
 Cys Val Asp His Pro Tyr Leu Phe Asp Gly Val Glu Pro Glu Pro Phe
 325 330 335
 Glu Val Gly Asp His Leu Thr Glu Ala Ser Gly Lys Leu His Leu Leu
 340 345 350
 Asp Lys Leu Leu Ala Phe Leu Tyr Ser Gly Gly His Arg Val Leu Leu

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355 360 365
 Phe Ser Gln Met Thr Gln Met Leu Asp Ile Leu Gln Asp Tyr Met Asp
 370 375 380
 Tyr Arg Gly Tyr Ser Tyr Glu Arg Val Asp Gly Ser Val Arg Gly Glu
 385 390 395 400
 Glu Arg His Leu Ala Ile Lys Asn Phe Gly Gln Gln Pro Ile Phe Val
 405 410 415
 Phe Leu Leu Ser Thr Arg Ala Gly Gly Val Gly Met Asn Leu Thr Ala
 420 425 430
 Ala Asp Thr Val Ile Phe Val Asp Ser Asp Phe Asn Pro Gln Asn Asp
 435 440 445
 Leu Gln Ala Ala Ala Arg Ala His Arg Ile Gly Gln Asn Lys Ser Val
 450 455 460
 Lys Val Ile Arg Leu Ile Gly Arg Asp Thr Val Glu Glu Ile Val Tyr
 465 470 475 480
 Arg Lys Ala Ala Ser Lys Leu Gln Leu Thr Asn Met Ile Ile Glu Gly
 485 490 495
 Gly His Phe Thr Leu Gly Ala Gln Lys Pro Ala Ala Asp Ala Asp Leu
 500 505 510
 Gln Leu Ser Glu Ile Leu Lys Phe Gly Leu Asp Lys Leu Leu Ala Ser
 515 520 525
 Glu Gly Ser Thr Met Asp Glu Ile Asp Leu Glu Ser Ile Leu Gly Glu
 530 535 540
 Thr Lys Asp Gly Gln Trp Val Ser Asp Ala Leu Pro Ala Ala Glu Gly
 545 550 555 560
 Gly Ser Arg Asp Gln Glu Glu Gly Lys Asn His Met Tyr Leu Phe Glu
 565 570 575
 Gly Lys Asp Tyr Ser Lys Glu Pro Ser Lys Glu Asp Arg Lys Ser Phe
 580 585 590
 Glu Gln Leu Val Asn Leu Gln Lys Thr Leu Leu Glu Lys Ala Ser Gln
 595 600 605
 Glu Gly Arg Ser Leu Arg Asn Lys Gly Ser Val Leu Ile Pro Gly Leu
 610 615 620
 Val Glu Gly Ser Thr Lys Arg Lys Arg Val Leu Ser Pro Glu Glu Leu
 625 630 635 640
 Glu Asp Arg Gln Lys Lys Arg Gln Glu Ala Ala Lys Arg Arg Arg
 645 650 655
 Leu Ile Glu Glu Lys Lys Arg Gln Lys Glu Glu Ala Glu His Lys Lys
 660 665 670
 Lys Val Ala Trp Trp Glu Ser Asn Asn Tyr Gln Ser Phe Cys Leu Pro
 675 680 685
 Ser Glu Glu Ser Glu Pro Glu Asp Leu Glu Asn Gly Glu Glu Ser Ser
 690 695 700
 Ala Glu Leu Asp Tyr Gln Asp Pro Asp Ala Thr Ser Leu Lys Tyr Val
 705 710 715 720
 Ser Gly Asp Val Thr His Pro Gln Ala Gly Ala Glu Asp Ala Leu Ile
 725 730 735
 Val His Cys Val Asp Asp Ser Gly His Trp Gly Arg Gly Gly Leu Phe
 740 745 750
 Thr Ala Leu Glu Lys Arg Ser Ala Glu Pro Arg Lys Ile Tyr Glu Leu
 755 760 765
 Ala Gly Lys Met Lys Asp Leu Ser Leu Gly Gly Val Leu Leu Phe Pro
 770 775 780
 Val Asp Asp Lys Glu Ser Arg Asn Lys Gly Gln Asp Leu Leu Ala Leu

785					790					795					800
Ile	Val	Ala	Gln	His	Arg	Asp	Arg	Ser	Asn	Val	Leu	Ser	Gly	Ile	Lys
				805					810					815	
Met	Ala	Ala	Leu	Glu	Glu	Gly	Leu	Lys	Lys	Ile	Phe	Leu	Ala	Ala	
			820					825					830		

<210> 1820
 <211> 212
 <212> PRT
 <213> Homo sapiens

<400> 1820

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			20					25					30		
Ala	Pro	Ala	Cys	Ala	Leu	Leu	Leu	Leu	Phe	Pro	Leu	Thr	Ala	Gln	His
		35					40					45			
Glu	Asn	Phe	Arg	Lys	Lys	Gln	Ile	Glu	Glu	Leu	Lys	Gly	Gln	Glu	Val
	50				55						60				
Ser	Pro	Lys	Val	Tyr	Phe	Met	Lys	Gln	Thr	Ile	Gly	Asn	Ser	Cys	Gly
65				70					75					80	
Thr	Ile	Gly	Leu	Ile	His	Ala	Val	Ala	Asn	Asn	Gln	Asp	Lys	Leu	Gly
			85					90						95	
Phe	Glu	Asp	Gly	Ser	Val	Leu	Lys	Gln	Phe	Leu	Ser	Glu	Thr	Glu	Lys
		100						105					110		
Met	Ser	Pro	Glu	Asp	Arg	Ala	Lys	Cys	Phe	Glu	Lys	Asn	Glu	Ala	Ile
		115					120					125			
Gln	Ala	Ala	His	Asp	Ala	Val	Ala	Gln	Glu	Gly	Gln	Cys	Arg	Val	Asp
	130					135					140				
Asp	Lys	Val	Asn	Phe	His	Phe	Ile	Leu	Phe	Asn	Asn	Val	Asp	Gly	His
145				150					155					160	
Leu	Tyr	Glu	Leu	Asp	Gly	Arg	Met	Pro	Phe	Pro	Val	Asn	His	Gly	Ala
			165					170						175	
Ser	Ser	Glu	Asp	Thr	Leu	Leu	Lys	Asp	Ala	Ala	Lys	Val	Cys	Arg	Glu
		180					185					190			
Phe	Thr	Glu	Arg	Glu	Gln	Gly	Glu	Val	Arg	Phe	Ser	Ala	Val	Ala	Leu
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Cys	Lys	Ala	Ala												
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<210> 1821
 <211> 323
 <212> PRT
 <213> Homo sapiens

<400> 1821

Met	Asp	Ser	Lys	Tyr	Gln	Cys	Val	Lys	Leu	Asn	Asp	Gly	His	Phe	Met
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Pro	Val	Leu	Gly	Phe	Gly	Thr	Tyr	Ala	Pro	Ala	Glu	Val	Pro	Lys	Ser
		20						25					30		
Lys	Ala	Leu	Glu	Ala	Val	Lys	Leu	Ala	Ile	Glu	Ala	Gly	Tyr	His	His

1001754-10001

65					70						75				80
Arg	Ser	Lys	Arg	Cys	Gly	Asn	Leu	Ser	Thr	Cys	Met	Leu	Gly	Thr	Tyr
				85					90					95	
Thr	Gln	Asp	Phe	Asn	Lys	Phe	His	Thr	Phe	Pro	Gln	Thr	Ala	Ile	Gly
			100					105					110		
Val	Gly	Ala	Pro	Gly	Lys	Lys	Arg	Asp	Met	Ser	Ser	Asp	Leu	Glu	Arg
		115					120					125			
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<210> 1823
 <211> 6188
 <212> DNA
 <213> Homo sapiens

<400> 1823

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Gln Val Gly Arg Ile Ile Leu Glu Asp Tyr His Asp His Gly Leu Leu
 85 90 95
 Arg Val Arg Met Val Asn Leu Gln Val Glu Asp Ser Gly Leu Tyr Gln
 100 105 110
 Cys Val Ile Tyr Gln Pro Pro Lys Glu Pro His Met Leu Phe Asp Arg
 115 120 125
 Ile Arg Leu Val Val Thr Lys Gly Phe Ser Gly Thr Pro Gly Ser Asn
 130 135 140
 Glu Asn Ser Thr Gln Asn Val Tyr Lys Ile Pro Pro Thr Thr Thr Lys
 145 150 155 160
 Ala Leu Cys Pro Leu Tyr Thr Ser Pro Arg Thr Val Thr Gln Ala Pro
 165 170 175
 Pro Lys Ser Thr Ala Asp Val Ser Thr Pro Asp Ser Glu Ile Asn Leu
 180 185 190
 Thr Asn Val Thr Asp Ile Ile Arg Val Pro Val Phe Asn Ile Val Ile
 195 200 205
 Leu Leu Ala Gly Gly Phe Leu Ser Lys Ser Leu Val Phe Ser Val Leu
 210 215 220
 Phe Ala Val Thr Leu Arg Ser Phe Val Pro
 225 230

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 <211> 192
 <212> DNA
 <213> Homo sapiens

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 agaagcacct ggaaccccgga cagaagattc tggactcccc agacgggacc aggagaggga 180
 cggcatgagc ga 192

<210> 1827
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 1827
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 aagaagaacc agcagctgaa agtcgggatc ctacacctgg gcagcagaca gaagaagatc 120
 aggatacagc tgagatccca gtgcgcgaca tggaagggtga tctgcaagag ctgcatcagt 180
 caaacaccgg ggataaatct ggatttgggt tccggcgtca aggtgaagat aatacctaaa 240
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<210> 1828
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 <212> DNA
 <213> Homo sapiens

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 aggatacagc tgagatccca g 141

<210> 1829
 <211> 111
 <212> DNA
 <213> Homo sapiens

<400> 1829
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<210> 1830
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1830
 Met Arg Cys His Ala His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr
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 Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly
 20 25 30
 Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro Asp Arg
 35 40 45
 Arg Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg His Glu Arg
 50 55 60

<210> 1831
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1831
 His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met
 1 5 10 15
 Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His
 20 25 30
 Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln Cys
 35 40 45
 Ala Thr Trp Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly
 50 55 60
 Ile Asn Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile Ile Pro Lys
 65 70 75 80
 Glu Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu Gln Pro Gln Val
 85 90 95

<210> 1832
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1832
 His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met
 1 5 10 15

Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His
 20 25 30
 Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln
 35 40 45

<210> 1833
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 1833
 Val Leu Gly Arg Glu Met Arg Asp Met Glu Gly Asp Leu Gln Glu Leu
 1 5 10 15
 His Gln Ser Asn Thr Gly Asp Lys Ser Gly Phe Gly Phe Arg Arg Gln
 20 25 30
 Gly Glu Asp Asn Thr
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<210> 1834
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1834
 Met Ala Lys Gly Asp Pro Lys Lys Pro Lys Gly Lys Thr Ser Ala Tyr
 1 5 10 15
 Ala Phe Phe Val
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<210> 1835
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1835
 Pro Lys Gly Lys Thr Ser Ala Tyr Ala Phe Phe Val Gln Thr Cys Arg
 1 5 10 15
 Glu Glu His Lys
 20

<210> 1836
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1836
 Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys Asn Pro
 1 5 10 15
 Glu Val Pro Val
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<400> 1841

Lys	Ser	Lys	Phe	Asp	Glu	Met	Ala	Lys	Ala	Asp	Lys	Val	Arg	Tyr	Asp
1				5					10					15	
Arg	Glu	Met	Lys												
			20												

<210> 1842

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1842

Lys	Ala	Asp	Lys	Val	Arg	Tyr	Asp	Arg	Glu	Met	Lys	Asp	Tyr	Gly	Pro
1				5					10					15	
Ala	Lys	Gly	Gly												
			20												

<210> 1843

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1843

Arg	Glu	Met	Lys	Asp	Tyr	Gly	Pro	Ala	Lys	Gly	Gly	Lys	Lys	Lys	Lys
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Asp	Pro	Asn	Ala												
			20												

<210> 1844

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1844

Ala	Lys	Gly	Gly	Lys	Lys	Lys	Lys	Asp	Pro	Asn	Ala	Pro	Lys	Arg	Pro
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Pro	Ser	Gly	Phe												
			20												

<210> 1845

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1845

Asp	Pro	Asn	Ala	Pro	Lys	Arg	Pro	Pro	Ser	Gly	Phe	Phe	Leu	Phe	Cys
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Ser	Glu	Phe	Arg												
			20												

<210> 1846
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1846
 Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys
 1 5 10 15
 Ser Thr Asn Pro
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<210> 1847
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1847
 Ser Glu Phe Arg Pro Lys Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile
 1 5 10 15
 Gly Asp Val Ala
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<210> 1848
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1848
 Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly
 1 5 10 15
 Glu Met Trp Asn
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<210> 1849
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1849
 Gly Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Leu Asn Asp
 1 5 10 15
 Ser Glu Lys Gln
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<210> 1850
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1850

Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr
 1 5 10 15
 Lys Ala Ala Lys
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<210> 1851

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1851

Ser Glu Lys Gln Pro Tyr Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys
 1 5 10 15
 Tyr Glu Lys Asp
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<210> 1852

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1852

Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr
 1 5 10 15
 Lys Ser Lys Gly
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<210> 1853

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1853

Tyr Glu Lys Asp Val Ala Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly
 1 5 10 15
 Ala Lys Gly Pro
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<210> 1854

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1854

Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala
 1 5 10 15
 Arg Lys Lys Val
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T0020T#452400T

<210> 1855
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1855
 Ala Lys Gly Pro Ala Lys Val Ala Arg Lys Lys Val Glu Glu Glu Asp
 1 5 10 15
 Glu Glu Glu Glu
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<210> 1856
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1856
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 1 5 10 15
 Glu Glu Glu Glu
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<210> 1857
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1857
 agtgcgaatt cgggctgcgt gcaggagg 28

<210> 1858
 <211> 32
 <212> DNA
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<220>
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<400> 1858
 ggactcgagc tactgcaagt ctggtgtgga tg 32

<210> 1859
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>

<223> PCR primer

<400> 1859

agatgaattc acgcgtccgc gccgcgcggc gca

33

<210> 1860

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1860

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31

<210> 1861

<211> 945

<212> DNA

<213> Homo sapiens

<400> 1861

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accgttcata	tcgggcctac	cgccttctc	ggcttgggtg	ttgtcgacaa	caacggcaac	180
ggcgacgag	tccaacgcgt	ggtcgggagc	gctccggcgg	caagtctcgg	catctccacc	240
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agtctggcgg	cacctggcga	gcggagccgg	agtcgggctg	gggaccgcgg	ggttgaggcc	540
ggaccgcggc	ggggtcgggg	gagaaacgcg	cgctgccctg	gcacggggccc	caaccccccg	600
gccgcgcgga	atggtatggc	ccggccggag	ttaaggcccg	ggggaggcgg	cgagtcccgc	660
ggcggcggcg	acgatggggc	tgctgacagg	aggaacgcgt	ggcagggccg	gcgcgggtcg	720
ggggggcggc	gagggggccc	ggccgagcgg	cggcgcgcag	ggcggcagca	tccactcggg	780
cgcctcgcgc	gcggtgcaca	acgtgccgct	gagcgtgctc	atccggccgc	tgccgtccgt	840
gtttgaaccc	gccaaagtgc	agagcctcgt	ggacacgata	cgggaggacc	cagacagcgt	900
gccccccatc	gatgtcctct	ggatcaaagg	ggcccaggga	ggtga		945

<210> 1862

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1862

atgcatcacc	atcaaccatca	cacggccgcg	tccgataact	tccagctgtc	ccaggggtggg	60
cagggattcg	ccattccgat	cgggcaggcg	atggcgatcg	cgggccagat	caagcttccc	120
accgttcata	tcgggcctac	cgccttctc	ggcttgggtg	ttgtcgacaa	caacggcaac	180
ggcgacgag	tccaacgcgt	ggtcgggagc	gctccggcgg	caagtctcgg	catctccacc	240
ggcgacgtga	tcaccgcggt	cgacggcgct	ccgatcaact	cggccaccgc	gatggcggac	300
gcgcttaacg	ggcatcatcc	cggtgacgtc	atctcgggtga	cctggcaaac	caagtcgggc	360
ggcacgcgta	cagggaaact	gacattggcc	gagggacccc	cgggcgaatt	cgggctgcgt	420
gcaggaggaa	cgctggggcag	ggcgggcgcg	ggtcgggggg	cgcccagggg	gcccggggccg	480
agcggcgcgc	cgaggggcgc	cagcatccac	tcggggcgcga	tcgcccgcgt	gcacaacgtg	540

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ccgctgagcg tgctcaccg gccgctgccg tccgtgttgg accccgcca ggtgcagagc 600
ctcgtggaca cgatccggga ggaccagac agcgtgcccc ccacgatgt cctctggatc 660
aaagggggccc agggaggtga ctacttctac tcctttgggg gctgccaccg ctacgcggcc 720
taccagcaac tgcagcgaga gaccatcccc gccaaagctt tccagtccac tctctcagac 780
ctaagggtgt acctgggagc atccacacca gacttgcagt ag 822

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<210> 1863

<211> 314

<212> PRT

<213> Homo sapiens

<400> 1863

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Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
  1          5          10          15
Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20          25          30
Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35          40          45
Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50          55          60
Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65          70          75          80
Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
      85          90          95
Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
      100          105          110
Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
      115          120          125
Leu Ala Glu Gly Pro Pro Ala Glu Phe Thr Arg Pro Arg Arg Ala Ala
      130          135          140
Gln Gly Arg Arg Glu Ala Pro Pro Gly Gly Glu Pro Glu Pro Arg Ala
      145          150          155          160
Ser Leu Ala Ala Pro Gly Glu Arg Ser Arg Ser Arg Ala Gly Asp Arg
      165          170          175
Gly Val Glu Ala Gly Pro Arg Arg Gly Arg Gly Arg Asn Ala Arg Cys
      180          185          190
Pro Gly Thr Gly Pro Asn Pro Pro Ala Ala Arg Asn Gly Met Ala Arg
      195          200          205
Pro Glu Leu Arg Pro Gly Gly Gly Glu Ser Arg Gly Gly Gly Asp
      210          215          220
Asp Gly Ala Ala Cys Arg Arg Asn Ala Gly Gln Gly Arg Arg Gly Ser
      225          230          235          240
Gly Gly Ala Arg Gly Ala Arg Ala Glu Arg Arg Arg Ala Gly Arg Gln
      245          250          255
His Pro Leu Gly Pro His Arg Arg Gly Ala Gln Arg Ala Ala Glu Arg
      260          265          270
Ala His Pro Ala Ala Ala Val Arg Val Gly Pro Arg Gln Gly Ala Glu
      275          280          285
Pro Arg Gly His Asp Pro Gly Gly Pro Arg Gln Arg Ala Pro His Arg
      290          295          300
Cys Pro Leu Asp Gln Arg Gly Pro Gly Arg
      305          310

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ccgacggcca gccctcaggg ggcggtcaca agtcagcgcc caagcaagtc aagcgacago 300
gctcgtcttc gcccgaactg atgcgctgca aacgcgggct caacttcagc ggctttggct 360
acagcctgcc gcagcagcag ccggccgccc tggcgcgccg caacgagcgc gagcgcaacc 420
gcgtcaagtt ggtcaacctg ggctttgcca ccttcggga gcacgtcccc aacggcgccg 480
ccaacaagaa gatgagtaag gtggagacac tgcgctcggc ggtcgagtac atccgcgcgc 540
tgcagcagct gctggacgag catgacgcgg tgagcgccgc cttccaggca ggcgctcctgt 600
cgcccaccat ctcccccaac tactccaacg acttgaactc catggccggc tcgcccgtct 660
catcctactc gtcggacgag ggctcttacg acccgctcag ccccgaggag caggagcttc 720
tcgacttcac caactggttc tgaggggctc ggcctggtca ggccctggtg cgaatggact 780
ttggaagcag                                     790

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<210> 1866

<211> 784

<212> DNA

<213> Homo sapiens

<400> 1866

```

ccgcgactcc ttggccgccc ctgcgcatgg aaagctctgc caagatggag agcggcgccg 60
ccggccagca gcccagccg cagccccagc agcccttcct gccgccgca gcctgtttct 120
ttgccacggc cgcagccgcg gcggccgccc ccgcgcgagc ggcagcgagc agcgcgcagc 180
agcagcagca gcagcagcag cagcagcagc aggcgcgcga gctgagaccg gcggccgacg 240
gccagccctc agggggcggt cacaagtcag cgcaccaagca agtcaagcga cagcgctcgt 300
cttcgcccga actgatgcgc tgcaaacgcc ggtcaactt cagcggcttt ggctacagcc 360
tgccgcagca gcagccggcc gccgtggcgc gccgcaacga gcgcgagcgc aaccgcgtca 420
agttggtcaa cctgggcttt gccacccttc gggagcacgt ccccaacggc gcggccaaca 480
agaagatgag taaggtggag aactgcgct cggcggtcga gtacatccgc gcgctgcagc 540
agctgctgga cgagcatgac gcggtgagcg ccgccttcca ggcaggcgct ctgtcgccca 600
ccatctcccc caactactcc aacgaactga actccatggc cggtcgcgcg gtctcactct 660
actcgtcgga cgagggctct tacgaccgcg tcagccccga ggagcaggag cttctcgact 720
tcaccaactg gttctgaggg gctcggcctg gtcaggccct ggtgcgaatg gactttggaa 780
gcag                                     784

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<210> 1867

<211> 789

<212> DNA

<213> Homo sapiens

<400> 1867

```

ttccgcgact cettggccgc cgctgcgcat ggaaagctct gccaaagatgg agagcggcgg 60
cgccggccag cagccccagc cgcagcccca gcagcccttc ctgcgcgccg cagcctgttt 120
ctttgccacg gccgcagccg ccggcgccgc agccgccgca gcggcagcgc agagcgcgca 180
gcagcagcag cagcagcagc agcagcagca gcagcaggcg ccgcagctga gaccggcggc 240
cgacggccag cctcagggg gcggtcacaa gtcagcgccc aagcaagtoa agcgacagcg 300
ctcgtcttcg cccgaactga tgcgctgcaa acgcccgtc aacttcagcg gctttggcta 360
cagcctgcgc cagcagcagc cggccgcccgt ggcgcgccgc aacgagcgcg agcgcaaccg 420
cgtcaagttg gtcaacctg gctttgccac ccttcgggag cactcccca acggcgccgc 480
caacaagaag atgagtaagg tggagacact gcgctcggcg gtcgagtaca tcgcgcgct 540
gcagcagctg ctggaacgagc atgacgcggg gagcgccgcc ttccaggcag gcgtcctgtc 600
gccaccatc tcccccaact actccaacga cttgaactcc atggccggct cgcgggtctc 660
atcctactcg tcggacgagg gctcttacga cccgctcagc cccgaggagc aggagcttct 720
cgacttcacc aactggttct gaggggctcg gcctggtcag gccctggtgc gaatggactt 780
tggaagcag                                     789

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<210> 1868

<211> 785
 <212> DNA
 <213> Homo sapiens

<400> 1868
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 ggccggcgccg gccagcagcc ccagccgcag cccagcagc ccttcctgcc gcccgagcc 120
 tgtttctttg ccacggccgc agccgcggcg gcccgagccg ccgcagcggc agcgagagc 180
 gcgcagcagc agcagcagca gcagcagcag caggcgccgc agctgagacc ggccggccgac 240
 ggccagccct cagggggcgg tcacaagtca gcgcccagc aagtcaagcg acagcgctcg 300
 tcttcgcccc aactgatgcg ctgcaaagcg cggctcaact tcagcggctt tggctacagc 360
 ctgccgcagc agcagccggc cgccgtggcg cgccgcaacg agcgcgagcg caaccgcgctc 420
 aagtttgtca acctgggctt tgccaccctt cgggagcacg tccccaacg cgccggccaac 480
 aagaagatga gtaaggtgga gacactgcgc tcggcggtcg agtacatccg cgcgctgcag 540
 cagctgctgg acgagcatga cgcggtgagc gccgccttcc aggcaggcgt cctgtcgccc 600
 accatctccc ccaactactc caacgacttg aactccatgg ccggctcgcc ggtctcatcc 660
 tactcgtcgg acgagggctc ttacgacccg ctacgccccg aggagcagga gcttctcgac 720
 ttcaccaact ggttctgagg ggctcggcct ggtcaggccc tgggtgcgaat ggactttgga 780
 agcag 785

<210> 1869
 <211> 236
 <212> PRT
 <213> Homo sapiens

<400> 1869
 Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
 1 5 10 15
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
 20 25 30
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
 35 40 45
 Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro
 50 55 60
 Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys
 65 70 75 80
 Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu
 85 90 95
 Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu
 100 105 110
 Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg
 115 120 125
 Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His
 130 135 140
 Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu
 145 150 155 160
 Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu
 165 170 175
 His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr
 180 185 190
 Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro
 195 200 205
 Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro
 210 215 220

Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
 225 230 235

<210> 1870
 <211> 236
 <212> PRT
 <213> Homo sapiens

<400> 1870
 Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
 1 5 10 15
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
 20 25 30
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
 35 40 45
 Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro
 50 55 60
 Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys
 65 70 75 80
 Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu
 85 90 95
 Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu
 100 105 110
 Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg
 115 120 125
 Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His
 130 135 140
 Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu
 145 150 155 160
 Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu
 165 170 175
 His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr
 180 185 190
 Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro
 195 200 205
 Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro
 210 215 220
 Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
 225 230 235

<210> 1871
 <211> 237
 <212> PRT
 <213> Homo sapiens

<400> 1871
 Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
 1 5 10 15
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
 20 25 30
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
 35 40 45

Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala
 50 55 60
 Pro Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His
 65 70 75 80
 Lys Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu
 85 90 95
 Leu Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser
 100 105 110
 Leu Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu
 115 120 125
 Arg Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu
 130 135 140
 His Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr
 145 150 155 160
 Leu Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp
 165 170 175
 Glu His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro
 180 185 190
 Thr Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser
 195 200 205
 Pro Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser
 210 215 220
 Pro Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
 225 230 235

<210> 1872
 <211> 234
 <212> PRT
 <213> Homo sapiens

<400> 1872
 Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
 1 5 10 15
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
 20 25 30
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
 35 40 45
 Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro Gln Leu
 50 55 60
 Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys Ser Ala
 65 70 75 80
 Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu Met Arg
 85 90 95
 Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu Pro Gln
 100 105 110
 Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg Asn Arg
 115 120 125
 Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His Val Pro
 130 135 140
 Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu Arg Ser
 145 150 155 160
 Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu His Asp
 165 170 175

100754-10001

Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr Ile Ser
 180 185 190
 Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro Val Ser
 195 200 205
 Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro Glu Glu
 210 215 220
 Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
 225 230

<210> 1873
 <211> 1353
 <212> DNA
 <213> Homo sapiens

<400> 1873
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 cacccaactg gcccagtagc attcattctc tcaggaaaaa aaacaaggtc cccacagcaa 120
 agaaaaggaa taggatcaag agatacgtgg ctgctggcag agcaagcatg aattcgatga 180
 cttcagcagt tccggtggcc aattctgtgt tgggtggggc accccacaat gggtatcctg 240
 tgaccccgag aattatgtct cacgtgcccc tgtatccaaa cagccagccg caagtccacc 300
 tagttcctgg gaaccacact agtttgggtg cgaatgtgaa tgggcagcct gtgcagaaaag 360
 ctctgaaaga aggcaaaacc ttggggggcca tccagatcat cattggcctg gtcacatcg 420
 gacctgggctc catcatggcg acggttctcg taggggaata cctgtctatt tcattctacg 480
 gaggcctttcc cttctgggga ggcttgtggt ttatcatttc agaattctctc tccgtggcag 540
 cagaaaatca gccatattct tattgcctgc tgtctggcag tttgggcttg aacatcgta 600
 gtgcaatctg ctctgcagtt ggagtcatac tcttcatac agatctaagt attccccacc 660
 catatgccta ccccgactat tatccttacg cctgggggtg gaaccctgga atggcgattt 720
 ctggcgctgct gctggtcttc tgctcctgag agtttggcat cgcagtcgca tcttccact 780
 ttggctgcca gttggtctgc tgtcaatcaa gcaatgtgag tgtcatctat ccaaactat 840
 atgcagcaaa cccagtgatc accccagaac cgggtgacct accaccaagt tattccagt 900
 agatccaagc aaataagtaa ggctacagat tctggaagca tctttcactg ggacaaaaag 960
 aagtcctcct ccttttctgg gcttccataa cccaggctgt tctgttctg acagctgagg 1020
 aaacgtctct cccactgttt gtactctcac cttcattctt caattcagtc taggaaacca 1080
 tgctgtttct ctatcaagaa gaagacagag attttaaaca gatgttaacc aagagggact 1140
 ccctagggca catgcatcag cacatatgtg ggcatccagc ctctgggggc ttggcacaca 1200
 cacattcgtg tgctctgctg catgtgagct tgtgggttaa aggaacaaat atttagacat 1260
 tcaatcttca ctctttcaat tgtgcattca tttaataaat agatactgag cattcaaaaa 1320
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1353

<210> 1874
 <211> 250
 <212> PRT
 <213> Homo sapiens

<400> 1874
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 1 5 10 15
 Val Ala Pro His Asn Gly Tyr Pro Val Thr Pro Gly Ile Met Ser His
 20 25 30
 Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His Leu Val Pro Gly
 35 40 45
 Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln Pro Val Gln Lys
 50 55 60

Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln Ile Ile Ile Gly
65 70 75 80
Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr Val Leu Val Gly
85 90 95
Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Phe Pro Phe Trp Gly Gly
100 105 110
Leu Trp Phe Ile Ile Ser Glu Ser Leu Ser Val Ala Ala Glu Asn Gln
115 120 125
Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser Leu Gly Leu Asn Ile Val
130 135 140
Ser Ala Ile Cys Ser Ala Val Gly Val Ile Leu Phe Ile Thr Asp Leu
145 150 155 160
Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr Pro Tyr Ala Trp
165 170 175
Gly Val Asn Pro Gly Met Ala Ile Ser Gly Val Leu Leu Val Phe Cys
180 185 190
Leu Leu Glu Phe Gly Ile Ala Cys Ala Ser Ser His Phe Gly Cys Gln
195 200 205
Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile Tyr Pro Asn Ile
210 215 220
Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val Thr Ser Pro Pro
225 230 235 240
Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys
245 250

<210> 1875
<211> 1155
<212> DNA
<213> Homo sapiens

<400> 1875
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cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccctcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgacagag tccaacgcgt ggtcgggagc gtcgcggcgg caagtctcgg catctccacc 240
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gcgcttaacg ggcacatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360
ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgacttca 420
gcagttccgg tggccaattc tgtgttggtg gtggcacccc acaatgggta tctgtgacc 480
ccaggaatta tgtctcacgt gccctgtat ccaaacagcc agccgcaagt ccacctagtt 540
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ggctccatca tggcgacggt tctcgtaggg gaatacctgt ctatttcatt ctacggaggc 720
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aatcagccat attcttattg cctgctgtct ggcagtttgg gcttgaacat cgtcagtgc 840
atctgctctg cagttggagt catactcttc atcacagatc taagtattcc ccaccatata 900
gcctaccccg actattatcc ttacgcctgg ggtgtgaacc ctggaatggc gatttctggc 960
gtgctgctgg tcttctgct cctggagttt ggcacatcgc gcgcatcttc ccactttggc 1020
tgccagttgg tctgctgtca atcaagcaat gtgagtgtca tctatccaaa catctatgca 1080
gcaaaccag tgatcaccoc agaaccggtg acctcaccac caagttattc cagtgcagatc 1140
caagcaaata agtaa 1155

<210> 1876

<210> 1877
 <211> 861
 <212> DNA
 <213> Homo sapiens

<400> 1877
 atgcatcacc atcaccatca cacggcgcgcg tccgataact tccagctgtc ccagggtggg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttatg 120
 acttcagcag ttccggtggc caattctgtg ttggtgggtg caccaccaca tggttatcct 180
 gtgaccccag gaattatgtc tcacgtgcc ctgtatccaa acagccagcc gcaagtccac 240
 ctagtctctg ggaacccacc tagtttgggtg tcgaatgtga atgggcagcc tgtgcagaaa 300
 gctctgaaag aaggcaaaac cttggggggc atccagatca tcattggcct ggctcacatc 360
 ggctctgggt ccatcatggc gacggttctc gtagggaat acctgtctat ttcattctac 420
 ggaggtcttc ccttctgggg aggtctgtgg tttatcattt cagaatctct ctccgtggca 480
 gcagaaaatc agccatattc ttattgcctg ctgtctggca gtttgggctt gaacatcgtc 540
 agtgcaatct gctctgcagt tggagtcata ctcttcatca cagatctaag tattccccac 600
 ccatatgcct accccgacta ttatccttac gcctgggggtg tgaaccctgg aatggcgatt 660
 tctggcgtgc tgctggtctt ctgcctcctg gagtttggca tcgcatgcgc atcttccccac 720
 tttggctgcc agttggtctg ctgtcaatca agcaatgtga gtgtcatcta tccaaacatc 780
 tatgcagcaa acccagtgat caccaccagaa ccggtgacct caccaccaag ttattccagt 840
 gagatccaag caaataagta a 861

<210> 1878
 <211> 286
 <212> PRT
 <213> Homo sapiens

<400> 1878
 Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
 1 5 10 15
 Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
 20 25 30
 Ile Ala Gly Gln Ile Lys Leu Met Thr Ser Ala Val Pro Val Ala Asn
 35 40 45
 Ser Val Leu Val Val Ala Pro His Asn Gly Tyr Pro Val Thr Pro Gly
 50 55 60
 Ile Met Ser His Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His
 65 70 75 80
 Leu Val Pro Gly Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln
 85 90 95
 Pro Val Gln Lys Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln
 100 105 110
 Ile Ile Ile Gly Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr
 115 120 125
 Val Leu Val Gly Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly Phe Pro
 130 135 140
 Phe Trp Gly Gly Leu Trp Phe Ile Ile Ser Glu Ser Leu Ser Val Ala
 145 150 155 160
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<400> 1882

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<210> 1883

<211> 6799

<212> DNA

<213> Homo sapiens

<400> 1883

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 <211> 91
 <212> PRT
 <213> Homo sapiens

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 <211> 56
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 <213> Homo sapiens

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Glu Lys Cys Tyr Phe Cys Leu Ile Lys Leu His Ala Pro Ser His Ser
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 <212> PRT
 <213> Homo sapiens

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 35 40 45
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<210> 1892
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<400> 1892
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<211> 8372

<212> DNA

<213> Homo sapiens

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<400> 1893

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<210> 1898

<211> 2103

<212> DNA

<213> Homo sapiens

<400> 1898

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 ccggcaccct ctctgagagg caacagaagc agcaattgtt tcagcgaaaa aagcagcaag 180
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 aggagcaggg accggcgatc taggggggga tcagctacaa aagaaaactgt cactgggagc 300
 ggtgcggcca aggaggaagc agtgctgcca ggctctgtct cagggcacag ctggctggcg 360
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<210> 1899

<211> 987

<212> DNA

<213> Homo sapiens

<400> 1899

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 cgcggaaggt ccctcagaca tccccgattg aaagaaccag agaggctctg agaaacctcg 540
 ggaaacttag atcatcagtc accgaaggtc ctacagggcc acaactgccc ccgccacaac 600
 ccaccccgct ttctagttt tcatttagaa aatagagctt ttaaaaatgt cctgcctttt 660
 aacgtagata taagccttcc cccactaccg taaatgtcca tttatatcat tttttatata 720
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 aataaaataa ttttcattca ttcactc 987

<210> 1900
 <211> 2545
 <212> DNA
 <213> Homo sapiens

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 aagggtcgt gttcctgcat cagcaccaac caagggacta tccacctaca atccttgaaa 180
 gacctaaac aatttgcccc aagcccttcc tgcgagaaaa ttgaaatcat tgctacactg 240
 aagaatggag ttcaaaccatg tctaaaccca gattcagcag atgtgaagga actgattaaa 300
 aagtgggaga aacaggtcag ccaaaagaaa aagcaaaaga atgggaaaaa acatcaaaaa 360
 aagaaagttc tgaaagtctg aaaatctcaa cgttctcgtc aaaagaagac tacataagag 420
 accacttcac caataagtat tctgtgttaa aaatgttcta ttttaattat accgctatca 480
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 ttaaggccat gatttttagca ataccatgt ctacacagat gttcacccaa ccacatccca 720
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<210> 1901
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 1901

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Gly Gln Ala Phe Glu Leu Ile Leu Ser Pro Arg Ser Lys Glu Ser Val
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Pro Glu Phe Pro Leu Ser Pro Pro Lys Lys Lys Asp Leu Ser Leu Glu
      35           40           45
Glu Ile Gln Lys Lys Leu Glu Ala Ala Glu Glu Arg Arg Lys Ser His
 50           55           60
Glu Ala Glu Val Leu Lys Gln Leu Ala Glu Lys Arg Glu His Glu Lys
65           70           75           80
Glu Val Leu Gln Lys Ala Ile Glu Glu Asn Asn Asn Phe Ser Lys Met
          85           90           95
Ala Glu Glu Lys Leu Thr His Lys Met Glu Ala Asn Lys Glu Asn Arg
      100           105           110
Glu Ala Gln Met Ala Ala Lys Leu Glu Arg Leu Arg Glu Lys Asp Lys
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His Ile Glu Glu Val Arg Lys Asn Lys Glu Ser Lys Asp Pro Ala Asp
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Glu Thr Glu Ala Asp
145

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<210> 1902

<211> 276

<212> PRT

<213> Homo sapiens

<400> 1902

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Met His Asn Ser Glu Ile Ser Lys Arg Leu Gly Ala Glu Trp Lys Leu
      35           40           45
Leu Thr Glu Ser Glu Lys Arg Pro Phe Ile Asp Glu Ala Lys Arg Leu
 50           55           60
Arg Ala Met His Met Lys Glu His Pro Asp Tyr Lys Tyr Arg Pro Arg
65           70           75           80
Arg Lys Pro Lys Thr Leu Leu Lys Lys Asp Lys Phe Ala Phe Pro Val
          85           90           95
Pro Tyr Gly Leu Gly Gly Val Ala Asp Ala Glu His Pro Ala Leu Lys
      100           105           110
Ala Gly Ala Gly Leu His Ala Gly Ala Gly Gly Gly Leu Val Pro Glu
      115           120           125
Ser Leu Leu Ala Asn Pro Glu Lys Ala Ala Ala Ala Ala Ala Ala
      130           135           140
Ala Ala Arg Val Phe Phe Pro Gln Ser Ala Ala Ala Ala Ala Ala
145           150           155           160
Ala Ala Ala Ala Ala Ala Gly Ser Pro Tyr Ser Leu Leu Asp Leu Gly
          165           170           175
Ser Lys Met Ala Glu Ile Ser Ser Ser Ser Ser Gly Leu Pro Tyr Ala
      180           185           190

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Ser Ser Leu Gly Tyr Pro Thr Ala Gly Ala Gly Ala Phe His Gly Ala
 195 200 205
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly Gly His Thr His
 210 215 220
 Ser His Pro Ser Pro Gly Asn Pro Gly Tyr Met Ile Pro Cys Asn Cys
 225 230 235 240
 Ser Ala Trp Pro Ser Pro Gly Leu Gln Pro Pro Leu Ala Tyr Ile Leu
 245 250 255
 Leu Pro Gly Met Gly Lys Pro Gln Leu Asp Pro Tyr Pro Ala Ala Tyr
 260 265 270
 Ala Ala Ala Leu
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<210> 1903
 <211> 2209
 <212> PRT
 <213> Homo sapiens

<400> 1903
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 Val Asp Leu Leu Val Lys Ile Ser Ser Glu Lys Ala Ser Leu Asn Pro
 35 40 45
 Lys Ile Gln Ala Cys Ser Leu Ser Asp Gly Phe Ile Ile Val Ala Asp
 50 55 60
 Gln Ser Val Ile Leu Leu Asp Ser Ile Cys Arg Ser Leu Gln Leu His
 65 70 75 80
 Leu Val Phe Asp Thr Glu Val Asp Val Val Gly Leu Cys Gln Glu Gly
 85 90 95
 Lys Phe Leu Leu Val Gly Glu Arg Ser Gly Asn Leu His Leu Ile His
 100 105 110
 Val Thr Ser Lys Gln Thr Leu Leu Thr Asn Ala Phe Val Gln Lys Ala
 115 120 125
 Asn Asp Glu Asn Arg Arg Thr Tyr Gln Asn Leu Val Ile Glu Lys Asp
 130 135 140
 Gly Ser Asn Glu Gly Thr Tyr Tyr Met Leu Leu Thr Tyr Ser Gly
 145 150 155 160
 Phe Phe Cys Ile Thr Asn Leu Gln Leu Leu Lys Ile Gln Gln Ala Ile
 165 170 175
 Glu Asn Val Asp Phe Ser Thr Ala Lys Lys Leu Gln Gly Gln Ile Lys
 180 185 190
 Ser Ser Phe Ile Ser Thr Glu Asn Tyr His Thr Leu Gly Cys Leu Ser
 195 200 205
 Leu Val Ala Gly Asp Leu Ala Ser Glu Val Pro Val Ile Ile Gly Gly
 210 215 220
 Thr Gly Asn Cys Ala Phe Ser Lys Trp Glu Pro Asp Ser Ser Lys Lys
 225 230 235 240
 Gly Met Thr Val Lys Asn Leu Ile Asp Ala Glu Ile Ile Lys Gly Ala
 245 250 255
 Lys Lys Phe Gln Leu Ile Asp Asn Leu Leu Phe Val Leu Asp Thr Asp
 260 265 270

10017541001

Asn	Val	Leu	Ser	Leu	Trp	Asp	Ile	Tyr	Thr	Leu	Thr	Pro	Val	Trp	Asn	275	280	285
Trp	Pro	Ser	Leu	His	Val	Glu	Glu	Phe	Leu	Leu	Thr	Thr	Glu	Ala	Asp	290	295	300
Ser	Pro	Ser	Ser	Val	Thr	Trp	Gln	Gly	Ile	Thr	Asn	Leu	Lys	Leu	Ile	305	310	315
Ala	Leu	Thr	Ala	Ser	Ala	Asn	Lys	Lys	Met	Lys	Asn	Leu	Met	Val	Tyr	325	330	335
Ser	Leu	Pro	Thr	Met	Glu	Ile	Leu	Tyr	Ser	Leu	Glu	Val	Ser	Ser	Val	340	345	350
Ser	Ser	Leu	Val	Gln	Thr	Gly	Ile	Ser	Thr	Asp	Thr	Ile	Tyr	Leu	Leu	355	360	365
Glu	Gly	Val	Cys	Lys	Asn	Asp	Pro	Lys	Leu	Ser	Glu	Asp	Ser	Val	Ser	370	375	380
Val	Leu	Val	Leu	Arg	Cys	Leu	Thr	Glu	Ala	Leu	Pro	Glu	Asn	Arg	Leu	385	390	395
Ser	Arg	Leu	Leu	His	Lys	His	Arg	Phe	Ala	Glu	Ala	Glu	Ser	Phe	Ala	405	410	415
Ile	Gln	Phe	Gly	Leu	Asp	Val	Glu	Leu	Val	Tyr	Lys	Val	Lys	Ser	Asn	420	425	430
His	Ile	Leu	Glu	Lys	Leu	Ala	Leu	Ser	Ser	Val	Asp	Ala	Ser	Glu	Gln	435	440	445
Thr	Glu	Trp	Gln	Gln	Leu	Val	Asp	Asp	Ala	Lys	Glu	Asn	Leu	His	Lys	450	455	460
Ile	Gln	Asp	Asp	Glu	Phe	Val	Val	Asn	Tyr	Cys	Leu	Lys	Ala	Gln	Trp	465	470	475
Ile	Thr	Tyr	Glu	Thr	Thr	Gln	Glu	Met	Leu	Asn	Tyr	Ala	Lys	Thr	Arg	485	490	495
Leu	Leu	Lys	Lys	Glu	Asp	Lys	Thr	Ala	Leu	Ile	Tyr	Ser	Asp	Gly	Leu	500	505	510
Lys	Glu	Val	Leu	Arg	Ala	His	Ala	Lys	Leu	Thr	Thr	Phe	Tyr	Gly	Ala	515	520	525
Phe	Gly	Pro	Glu	Lys	Phe	Ser	Gly	Ser	Ser	Trp	Ile	Glu	Phe	Leu	Asn	530	535	540
Asn	Glu	Asp	Asp	Leu	Lys	Asp	Ile	Phe	Leu	Gln	Leu	Lys	Glu	Gly	Asn	545	550	555
Leu	Val	Cys	Ala	Gln	Tyr	Leu	Trp	Leu	Arg	His	Arg	Ala	Asn	Phe	Glu	565	570	575
Ser	Arg	Phe	Asp	Val	Lys	Met	Leu	Glu	Ser	Leu	Leu	Asn	Ser	Met	Ser	580	585	590
Ala	Ser	Val	Ser	Leu	Gln	Lys	Leu	Cys	Pro	Trp	Phe	Lys	Asn	Asp	Val	595	600	605
Ile	Pro	Phe	Val	Arg	Arg	Thr	Val	Pro	Glu	Gly	Gln	Ile	Ile	Leu	Ala	610	615	620
Lys	Trp	Leu	Glu	Gln	Ala	Ala	Arg	Asn	Leu	Glu	Leu	Thr	Asp	Lys	Ala	625	630	635
Asn	Trp	Pro	Glu	Asn	Gly	Leu	Gln	Leu	Ala	Glu	Ile	Phe	Phe	Thr	Ala	645	650	655
Glu	Lys	Thr	Asp	Glu	Leu	Gly	Leu	Ala	Ser	Ser	Trp	His	Trp	Ile	Ser	660	665	670
Leu	Lys	Asp	Tyr	Gln	Asn	Thr	Glu	Glu	Val	Cys	Gln	Leu	Arg	Thr	Leu	675	680	685
Val	Asn	Asn	Leu	Arg	Glu	Leu	Ile	Thr	Leu	His	Arg	Lys	Tyr	Asn	Cys	690	695	700

Lys Leu Ala Leu Ser Asp Phe Glu Lys Glu Asn Thr Thr Thr Ile Val
 705 710 715 720
 Phe Arg Met Phe Asp Lys Val Leu Ala Pro Glu Leu Ile Pro Ser Ile
 725 730 735
 Leu Glu Lys Phe Ile Arg Val Tyr Met Arg Glu His Asp Leu Gln Glu
 740 745 750
 Glu Glu Leu Leu Leu Tyr Ile Glu Asp Leu Leu Asn Arg Cys Ser
 755 760 765
 Ser Lys Ser Thr Ser Leu Phe Glu Thr Ala Trp Glu Ala Lys Ala Met
 770 775 780
 Ala Val Ile Ala Cys Leu Ser Asp Thr Asp Leu Ile Phe Asp Ala Val
 785 790 795 800
 Leu Lys Ile Met Tyr Ala Ala Val Val Pro Trp Ser Ala Ala Val Glu
 805 810 815
 Gln Leu Val Lys Gln His Leu Glu Met Asp His Pro Lys Val Lys Leu
 820 825 830
 Leu Gln Glu Ser Tyr Lys Leu Met Glu Met Lys Lys Leu Leu Arg Gly
 835 840 845
 Tyr Gly Ile Arg Glu Val Asn Leu Leu Asn Lys Glu Ile Met Arg Val
 850 855 860
 Val Arg Tyr Ile Leu Lys Gln Asp Val Pro Ser Ser Leu Glu Asp Ala
 865 870 875 880
 Leu Lys Val Ala Gln Ala Phe Met Leu Ser Asp Asp Glu Ile Tyr Ser
 885 890 895
 Leu Arg Ile Ile Asp Leu Ile Asp Arg Glu Gln Gly Glu Asp Cys Leu
 900 905 910
 Leu Leu Leu Lys Ser Leu Pro Pro Ala Glu Ala Glu Lys Thr Ala Glu
 915 920 925
 Arg Val Ile Ile Trp Ala Arg Leu Ala Leu Gln Glu Glu Pro Asp His
 930 935 940
 Ser Lys Glu Gly Lys Ala Trp Arg Met Ser Val Ala Lys Thr Ser Val
 945 950 955 960
 Asp Ile Leu Lys Ile Leu Cys Asp Ile Gln Lys Asp Asn Leu Gln Lys
 965 970 975
 Lys Asp Glu Cys Glu Glu Met Leu Lys Leu Phe Lys Glu Val Ala Ser
 980 985 990
 Leu Gln Glu Asn Phe Glu Val Phe Leu Ser Phe Glu Asp Tyr Ser Asn
 995 1000 1005
 Ser Ser Leu Val Ala Asp Leu Arg Glu Gln His Ile Lys Ala His Glu
 1010 1015 1020
 Val Ala Gln Ala Lys His Lys Pro Gly Ser Thr Pro Glu Pro Ile Ala
 1025 1030 1035 1040
 Ala Glu Val Arg Ser Pro Ser Met Glu Ser Lys Leu His Arg Gln Ala
 1045 1050 1055
 Leu Ala Leu Gln Met Ser Lys Gln Glu Leu Glu Ala Glu Leu Thr Leu
 1060 1065 1070
 Arg Ala Leu Lys Asp Gly Asn Ile Lys Thr Ala Leu Lys Lys Cys Ser
 1075 1080 1085
 Asp Leu Phe Lys Tyr His Cys Asn Ala Asp Thr Gly Lys Leu Leu Phe
 1090 1095 1100
 Leu Thr Cys Gln Lys Leu Cys Gln Met Leu Ala Asp Asn Val Pro Val
 1105 1110 1115 1120
 Thr Val Pro Val Gly Leu Asn Leu Pro Ser Met Ile His Asp Leu Ala
 1125 1130 1135

Val Asp Leu Glu Tyr Gln Tyr Met Leu Glu His Val Ile Thr Leu Pro
 1570 1575 1580
 Ser Ala Ala Gln Thr Arg Leu Pro Phe His Leu Ile Phe Phe Gly Thr
 1585 1590 1595 1600
 Ala Gln Asn Phe Trp Lys Ile Leu Ser Thr Glu Leu Ser Glu Glu Ser
 1605 1610 1615
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 1620 1625 1630
 Thr Leu Tyr Val Ser Thr Ala Lys His Val Phe Glu Lys Lys Leu Lys
 1635 1640 1645
 Pro Lys Leu Leu Lys Leu Thr Gln Ala Lys Ser Ser Thr Leu Ile Asn
 1650 1655 1660
 Lys Glu Ile Thr Lys Ile Thr Gln Thr Ile Glu Ser Cys Leu Leu Ser
 1665 1670 1675 1680
 Ile Val Asn Pro Glu Trp Ala Val Ala Ile Ala Ile Ser Leu Ala Gln
 1685 1690 1695
 Asp Ile Pro Glu Gly Ser Phe Lys Ile Ser Ala Leu Lys Phe Cys Leu
 1700 1705 1710
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 1730 1735 1740
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 1745 1750 1755 1760
 Glu Tyr Leu Arg Val Ile Gly Lys Pro Ala His Leu Ile Val Ser Leu
 1765 1770 1775
 Tyr Glu His Pro Ser Ile Asn Gln Arg Ile Gln Asn Ser Ser Gly Thr
 1780 1785 1790
 Asp Tyr Pro Asp Ile His Ala Ala Ala Lys Glu Ile Ala Glu Val Asn
 1795 1800 1805
 Glu Ile Asn Leu Glu Lys Val Trp Asp Met Leu Leu Glu Lys Trp Leu
 1810 1815 1820
 Cys Pro Ser Thr Lys Pro Gly Glu Lys Pro Ser Glu Leu Phe Glu Leu
 1825 1830 1835 1840
 Gln Glu Asp Glu Ala Leu Arg Arg Val Gln Tyr Leu Leu Leu Ser Arg
 1845 1850 1855
 Pro Ile Asp Tyr Ser Ser Arg Met Leu Phe Val Phe Ala Thr Ser Thr
 1860 1865 1870
 Thr Thr Thr Leu Gly Met His Gln Leu Thr Phe Ala His Arg Thr Arg
 1875 1880 1885
 Ala Leu Gln Cys Leu Phe Tyr Leu Ala Asp Lys Glu Thr Ile Glu Ser
 1890 1895 1900
 Leu Phe Lys Lys Pro Ile Glu Glu Val Lys Ser Tyr Leu Arg Cys Ile
 1905 1910 1915 1920
 Thr Phe Leu Ala Ser Phe Glu Thr Leu Asn Ile Pro Ile Thr Tyr Glu
 1925 1930 1935
 Leu Phe Cys Ser Ser Pro Lys Glu Gly Met Ile Lys Gly Leu Trp Lys
 1940 1945 1950
 Asn His Ser His Glu Ser Met Ala Val Arg Leu Val Thr Glu Leu Cys
 1955 1960 1965
 Leu Glu Tyr Lys Ile Tyr Asp Leu Gln Leu Trp Asn Gly Leu Leu Gln
 1970 1975 1980
 Lys Leu Leu Gly Phe Asn Met Ile Pro Tyr Leu Arg Lys Val Leu Lys
 1985 1990 1995 2000

Gln Trp Thr Glu Lys His Ala Arg Gln Lys Gln Lys Ala Asp Glu Glu
 145 150 155 160
 Glu Met Leu Asp Asn Leu Pro Glu Ala Gly Asp Ser Arg Val His Asn
 165 170 175
 Ser Thr Gln Lys Arg Lys Ala Ser Gln Leu Val Gly Ile Glu Lys Lys
 180 185 190
 Phe His Pro Asp Val
 195

<210> 1905
 <211> 202
 <212> PRT
 <213> Homo sapiens

<400> 1905
 Met Ala Thr Leu Ile Tyr Val Asp Lys Glu Asn Gly Glu Pro Gly Thr
 1 5 10 15
 Arg Val Val Ala Lys Asp Gly Leu Lys Leu Gly Ser Gly Pro Ser Ile
 20 25 30
 Lys Ala Leu Asp Gly Arg Ser Gln Val Ser Thr Pro Arg Phe Gly Lys
 35 40 45
 Thr Phe Asp Ala Pro Pro Ala Leu Pro Lys Ala Thr Arg Lys Ala Leu
 50 55 60
 Gly Thr Val Asn Arg Ala Thr Glu Lys Ser Val Lys Thr Lys Gly Pro
 65 70 75 80
 Leu Lys Gln Lys Gln Pro Ser Phe Ser Ala Lys Lys Met Thr Glu Lys
 85 90 95
 Thr Val Lys Ala Lys Ser Ser Val Pro Ala Ser Asp Asp Ala Tyr Pro
 100 105 110
 Glu Ile Glu Lys Phe Phe Pro Phe Asn Pro Leu Asp Phe Glu Ser Phe
 115 120 125
 Asp Leu Pro Glu Glu His Gln Ile Ala His Leu Pro Leu Ser Gly Val
 130 135 140
 Pro Leu Met Ile Leu Asp Glu Glu Arg Glu Leu Glu Lys Leu Phe Gln
 145 150 155 160
 Leu Gly Pro Pro Ser Pro Val Lys Met Pro Ser Pro Pro Trp Glu Ser
 165 170 175
 Asn Leu Leu Gln Ser Pro Ser Ser Ile Leu Ser Thr Leu Asp Val Glu
 180 185 190
 Leu Pro Pro Val Cys Cys Asp Ile Asp Ile
 195 200

<210> 1906
 <211> 464
 <212> PRT
 <213> Homo sapiens

<400> 1906
 Met Glu Thr Leu Ser Phe Pro Arg Tyr Asn Ile Ala Glu Ile Val Val
 1 5 10 15
 His Ile Arg Asn Lys Leu Leu Thr Gly Ala Asp Gly Lys Asn Leu Ser
 20 25 30

Lys Ser Asp Phe Leu Pro Asn Pro Lys Pro Glu Val Leu Tyr Met Ile
 35 40 45
 Tyr Met Arg Ala Leu Gln Leu Val Tyr Gly Val Arg Leu Glu His Phe
 50 55 60
 Tyr Met Met Pro Val Asn Ile Glu Val Met Tyr Pro His Ile Met Glu
 65 70 75 80
 Gly Phe Leu Pro Val Ser Asn Leu Phe Phe His Leu Asp Ser Phe Met
 85 90 95
 Pro Ile Cys Arg Val Asn Asp Phe Glu Ile Ala Asp Ile Leu Tyr Pro
 100 105 110
 Lys Ala Asn Arg Thr Ser Arg Phe Leu Ser Gly Ile Ile Asn Phe Ile
 115 120 125
 His Phe Arg Glu Thr Cys Leu Glu Lys Tyr Glu Glu Phe Leu Leu Gln
 130 135 140
 Asn Lys Ser Ser Val Asp Lys Ile Gln Gln Leu Ser Asn Ala His Gln
 145 150 155 160
 Glu Ala Leu Met Lys Leu Glu Lys Leu Asn Ser Val Pro Val Glu Glu
 165 170 175
 Gln Glu Glu Phe Lys Gln Leu Lys Asp Asp Ile Gln Glu Leu Gln His
 180 185 190
 Leu Leu Asn Gln Asp Phe Arg Gln Lys Thr Thr Leu Leu Gln Glu Arg
 195 200 205
 Tyr Thr Lys Met Lys Ser Asp Phe Ser Glu Lys Thr Lys His Val Asn
 210 215 220
 Glu Leu Lys Leu Ser Val Val Ser Leu Lys Glu Val Gln Asp Ser Leu
 225 230 235 240
 Lys Ser Lys Ile Val Asp Ser Pro Glu Lys Leu Lys Asn Tyr Lys Glu
 245 250 255
 Lys Met Lys Asp Thr Val Gln Lys Leu Arg Ser Ala Arg Glu Glu Val
 260 265 270
 Met Glu Lys Tyr Asp Ile Tyr Arg Asp Ser Val Asp Cys Leu Pro Ser
 275 280 285
 Cys Gln Leu Glu Val Gln Leu Tyr Gln Lys Lys Ser Gln Asp Leu Ala
 290 295 300
 Asp Asn Arg Glu Lys Leu Ser Ser Ile Leu Lys Glu Ser Leu Asn Leu
 305 310 315 320
 Glu Gly Gln Ile Asp Ser Asp Ser Ser Glu Leu Lys Lys Leu Lys Thr
 325 330 335
 Glu Glu Asn Ser Leu Ile Arg Leu Met Thr Leu Lys Lys Glu Arg Leu
 340 345 350
 Ala Thr Met Gln Phe Lys Ile Asn Lys Lys Gln Glu Asp Val Lys Gln
 355 360 365
 Tyr Lys Arg Thr Met Ile Glu Asp Cys Asn Lys Val Gln Glu Lys Arg
 370 375 380
 Asp Ala Val Cys Glu Gln Val Thr Ala Ile Asn Gln Asp Ile His Lys
 385 390 395 400
 Ile Lys Ser Gly Ile Gln Gln Leu Arg Asp Ala Glu Lys Arg Glu Lys
 405 410 415
 Leu Lys Ser Gln Glu Ile Leu Val Asp Leu Lys Ser Ala Leu Glu Lys
 420 425 430
 Tyr His Glu Gly Ile Glu Lys Thr Thr Glu Glu Cys Cys Thr Arg Ile
 435 440 445
 Gly Gly Lys Thr Ala Glu Leu Lys Arg Arg Met Phe Lys Met Pro Pro
 450 455 460

<210> 1907
 <211> 168
 <212> PRT
 <213> Homo sapiens

<400> 1907
 Met Ala Glu Pro Trp Gly Asn Glu Leu Ala Ser Ala Ala Ala Arg Gly
 1 5 10 15
 Asp Leu Glu Gln Leu Thr Ser Leu Leu Gln Asn Asn Val Asn Val Asn
 20 25 30
 Ala Gln Asn Gly Phe Gly Arg Thr Ala Leu Gln Val Met Lys Leu Gly
 35 40 45
 Asn Pro Glu Ile Ala Arg Arg Leu Leu Leu Arg Gly Ala Asn Pro Asp
 50 55 60
 Leu Lys Asp Arg Thr Gly Phe Ala Val Ile His Asp Ala Ala Arg Ala
 65 70 75 80
 Gly Phe Leu Asp Thr Leu Gln Thr Leu Leu Glu Phe Gln Ala Asp Val
 85 90 95
 Asn Ile Glu Asp Asn Glu Gly Asn Leu Pro Leu His Leu Ala Ala Lys
 100 105 110
 Glu Gly His Leu Arg Val Val Glu Phe Leu Val Lys His Thr Ala Ser
 115 120 125
 Asn Val Gly His Arg Asn His Lys Gly Asp Thr Ala Cys Asp Leu Ala
 130 135 140
 Arg Leu Tyr Gly Arg Asn Glu Val Val Ser Leu Met Gln Ala Asn Gly
 145 150 155 160
 Ala Gly Gly Ala Thr Asn Leu Gln
 165

<210> 1908
 <211> 156
 <212> PRT
 <213> Homo sapiens

<400> 1908
 Met Glu Pro Ala Ala Gly Ser Ser Met Glu Pro Ser Ala Asp Trp Leu
 1 5 10 15
 Ala Thr Ala Ala Ala Arg Gly Arg Val Glu Glu Val Arg Ala Leu Leu
 20 25 30
 Glu Ala Gly Ala Leu Pro Asn Ala Pro Asn Ser Tyr Gly Arg Arg Pro
 35 40 45
 Ile Gln Val Met Met Met Gly Ser Ala Arg Val Ala Glu Leu Leu Leu
 50 55 60
 Leu His Gly Ala Glu Pro Asn Cys Ala Asp Pro Ala Thr Leu Thr Arg
 65 70 75 80
 Pro Val His Asp Ala Ala Arg Glu Gly Phe Leu Asp Thr Leu Val Val
 85 90 95
 Leu His Arg Ala Gly Ala Arg Leu Asp Val Arg Asp Ala Trp Gly Arg
 100 105 110
 Leu Pro Val Asp Leu Ala Glu Glu Leu Gly His Arg Asp Val Ala Arg
 115 120 125

Tyr Leu Arg Ala Ala Ala Gly Gly Thr Arg Gly Ser Asn His Ala Arg
 130 135 140
 Ile Asp Ala Ala Glu Gly Pro Ser Asp Ile Pro Asp
 145 150 155

<210> 1909
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1909
 Met Lys Lys Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val
 1 5 10 15
 Leu Ile Gly Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser
 20 25 30
 Cys Ile Ser Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp
 35 40 45
 Leu Lys Gln Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile
 50 55 60
 Ala Thr Leu Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala
 65 70 75 80
 Asp Val Lys Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys
 85 90 95
 Lys Lys Gln Lys Asn Gly Lys Lys His Gln Lys Lys Lys Val Leu Lys
 100 105 110
 Val Arg Lys Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr
 115 120 125

<210> 1910
 <211> 931
 <212> DNA
 <213> Homo sapiens

<400> 1910
 caacagtcag aggtcgcgca ggcgctggta ccccgttggt ccgcgcggtg ctgcggttg 60
 aggggtgtca gtcagtgca tcccaggcag ctcttagtgt ggagcagtga actgtgtgtg 120
 gttccttcta cttggggatc atgcagagag cttcrcgtct gaagagagag ctgcacatgt 180
 tagccacaga gccaccccca ggcatacat gttggcaaga taaagaccaa atggatgacc 240
 tgcgagctca aatattaggt ggagccaaca caccttatga gaaagggtgt ttttaagctag 300
 aagttatcat tcttgagagg taccattttg aacctcctca gatccgattt ctcactccaa 360
 tttatcatcc aaacattgat tctgctggaa ggatttgtct ggatgttctc aaattgccac 420
 caaaagggtgc ttggagacca tccctcaaca tcgcaactgt gttgacctct attcagctgc 480
 tcatgtcaga acccaaccct gatgaccgcg tcatggctga catatcctca gaattttaa 540
 ataataagcc agccttcctc aagaatgcca gacagtggac agagaagcat gcaagacaga 600
 aacaaaaggc tgatgaggaa gagatgcttg ataactacc agaggctggt gactccagag 660
 tacacaactc aacacagaaa aggaaggcca gtcagctagt aggcatagaa aagaaatttc 720
 atcctgatgt ttaggggact tgtcctggtt catcttagtt aatgtgttct ttgccaaggt 780
 gatctaagtt gctaccttg aatTTTTTTT taaatatatt tgatgacata atTTTTgtgt 840
 agttttattta tttgtacat atgtattttg aaatctttta aacctgaaaa ataaatagtc 900
 atttaagtgtt gaaaaaaaaa aaaaaaaaaa a 931

<210> 1911

<211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1911
 gctaaaggtg accccaagaa accaaag

27

<210> 1912
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1912
 ctattaactc gagggagaca gataaacagt ttcttta

37

<210> 1913
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 1913
 Met Gln His His His His His His Ala Lys Gly Asp Pro Lys Lys Pro
 1 5 10 15
 Lys Gly Lys Met Ser Ala Tyr Ala Phe Phe Val Gln Thr Cys Arg Glu
 20 25 30
 Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala Glu Phe
 35 40 45
 Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser Gly Lys Glu Lys
 50 55 60
 Ser Lys Phe Asp Glu Met Ala Lys Ala Asp Lys Val Arg Tyr Asp Arg
 65 70 75 80
 Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys Asp
 85 90 95
 Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys Ser
 100 105 110
 Glu Phe Arg Pro Lys Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile Gly
 115 120 125
 Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Leu Asn Asp Ser
 130 135 140
 Glu Lys Gln Pro Tyr Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys Tyr
 145 150 155 160
 Glu Lys Asp Val Ala Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly Ala
 165 170 175
 Lys Gly Pro Ala Lys Val Ala Arg Lys Lys Val Glu Glu Glu Asp Glu
 180 185 190
 Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu
 195 200 205

<210> 1914
 <211> 624
 <212> DNA
 <213> Homo sapiens

<400> 1914
 atgcagcatc accaccatca ccacgctaaa ggtgacccca agaaaccaa gggcaagatg 60
 tccgcttatg ccttctttgt gcagacatgc agagaagaac ataagaagaa aaaccacagag 120
 gtccctgtca attttgcgga attttccaag aagtgtcttg agaggtggaa gacgatgtcc 180
 gggaaagaga aatctaaatt tgatgaaatg gcaaaggcag ataaagtgcg ctatgatcgg 240
 gaaatgaagg attatggacc agctaaggga ggcaagaaga agaaggatcc taatgctccc 300
 aaaaggccac cgtctggatt cttcctgttc tgttcagaat tccgccccaa gatcaaattcc 360
 acaaaccctc gcatctctat tggagacgtg gcaaaaaagc tgggtgagat gtggaataat 420
 ttaaatagaca gtgaaaagca gccttacatc actaaggcgg caaagctgaa ggagaagtat 480
 gagaaggatg ttgctgacta taagtcgaaa ggaaagtttg atggtgcaaa ggggtccagct 540
 aaagttgccc ggaaaaaggt ggaagaggaa gatgaagaag aggaggagga agaagaggag 600
 gaggaggagg aggaggatga ataa 624

<210> 1915
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1915
 gtgacgatgg aggagctgcg ggagatgg 28

<210> 1916
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1916
 cgcctaactc gagtcactaa cagctgggag 30

<210> 1917
 <211> 401
 <212> PRT
 <213> Homo sapiens

<400> 1917
 Met Gln His His His His His Val Thr Met Glu Glu Leu Arg Glu
 1 5 10 15
 Met Asp Cys Ser Val Leu Lys Arg Leu Met Asn Arg Asp Glu Asn Gly
 20 25 30
 Gly Gly Ala Gly Gly Ser Gly Ser His Gly Thr Leu Gly Leu Pro Ser
 35 40 45
 Gly Gly Lys Cys Leu Leu Leu Asp Cys Arg Pro Phe Leu Ala His Ser

50 55 60
 Ala Gly Tyr Ile Leu Gly Ser Val Asn Val Arg Cys Asn Thr Ile Val
 65 70 75 80
 Arg Arg Arg Ala Lys Gly Ser Val Ser Leu Glu Gln Ile Leu Pro Ala
 85 90 95
 Glu Glu Glu Val Arg Ala Arg Leu Arg Ser Gly Leu Tyr Ser Ala Val
 100 105 110
 Ile Val Tyr Asp Glu Arg Ser Pro Arg Ala Glu Ser Leu Arg Glu Asp
 115 120 125
 Ser Thr Val Ser Leu Val Val Gln Ala Leu Arg Arg Asn Ala Glu Arg
 130 135 140
 Thr Asp Ile Cys Leu Leu Lys Gly Gly Tyr Glu Arg Phe Ser Ser Glu
 145 150 155 160
 Tyr Pro Glu Phe Cys Ser Lys Thr Lys Ala Leu Ala Ala Ile Pro Pro
 165 170 175
 Pro Val Pro Pro Ser Ala Thr Glu Pro Leu Asp Leu Gly Cys Ser Ser
 180 185 190
 Cys Gly Thr Pro Leu His Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
 195 200 205
 Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ala Arg Arg Asp Met Leu
 210 215 220
 Asp Ala Leu Gly Ile Thr Ala Leu Leu Asn Val Ser Ser Asp Cys Pro
 225 230 235 240
 Asn His Phe Glu Gly His Tyr Gln Tyr Lys Cys Ile Pro Val Glu Asp
 245 250 255
 Asn His Lys Ala Asp Ile Ser Ser Trp Phe Met Glu Ala Ile Glu Tyr
 260 265 270
 Ile Asp Ala Val Lys Asp Cys Arg Gly Arg Val Leu Val His Cys Gln
 275 280 285
 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Met
 290 295 300
 Lys Lys Arg Val Arg Leu Glu Glu Ala Phe Glu Phe Val Lys Gln Arg
 305 310 315 320
 Arg Ser Ile Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln
 325 330 335
 Phe Glu Ser Gln Val Leu Ala Thr Ser Cys Ala Ala Glu Ala Ala Ser
 340 345 350
 Pro Ser Gly Pro Leu Arg Glu Arg Gly Lys Thr Pro Ala Thr Pro Thr
 355 360 365
 Ser Gln Phe Val Phe Ser Phe Pro Val Ser Val Gly Val His Ser Ala
 370 375 380
 Pro Ser Ser Leu Pro Tyr Leu His Ser Pro Ile Thr Thr Ser Pro Ser
 385 390 395 400
 Cys

<210> 1918

<211> 1209

<212> DNA

<213> Homo sapiens

<400> 1918

atgcagcatc accaccatca ccacgtgacg atggaggagc tgcgggagat ggactgcagt 60

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gtgctcaaaa ggctgatgaa ccgggacgag aatggcgggc gcgcggggcg cagcggcagc 120
cacggcaccg tggggctgcc gagcgggcgc aagtgcctgc tgctggactg cagaccgttc 180
ctggcgacac gcgcgggcta catcctaggt tcggtcaacg tgcgctgtaa caccatcgtg 240
cggcggcggg ctaagggctc cgtgagcctg gagcagatcc tgcccgccga ggaggaggta 300
cgcgcccgct tgcgctccgg cctctactcg gcggtcatcg tctacgacga gcgcagcccg 360
cgcgccgaga gcctccgcga ggacagcacc gtgtcgctgg tggcgcaggc gctgcgcgcg 420
aacgccgagc gcaccgacat ctgcctgtgc aaaggcggct atgagagggt ttcctccgag 480
taccagaat tctgttctaa aaccaaggcc ctggcagcca tcccacccc gggtccccc 540
agtgccacag agcccttgga cctgggctgc agctcctgtg ggacccact acacgaccag 600
gggggtcctg tggagatcct tcccttctc tacctcgga gtgcctacca tgctgcccg 660
agagacatgc tggacgcct ggcatcacg gctctgttga atgtctctc ggactgcca 720
aaccactttg aaggacacta tcagtacaag tgcattccag tggaagataa ccacaaggcc 780
gacatcagct cctggttcat ggaagccata gagtacatcg atgccgtgaa ggactgccgt 840
gggcgcgtgc tggcgcactg ccaggcgggc atctcgcggt cggccaccat ctgcctggcc 900
tacctgatga tgaagaaacg ggtgaggctg gaggaggcct tcgagttcgt taagcagcgc 960
cgcagcatca tctcgcccaa cttcagcttc atggggcagc tgctgcagtt cgagtcccag 1020
gtgctggcca cgtcctgtgc tgcggaggct gctagcccct cgggaccct gcgggagcgg 1080
ggcaagaccg ccgccacccc caccctcgag ttctgttcca gctttccggt ctccgtgggc 1140
gtgcactcgg ccccagcag cctgcctac ctgcacagcc ccataccac ctctcccagc 1200
tgtagtga                                     1209

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<210> 1919
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1919
 cgggtgccacg cccatggacc ttc 23

<210> 1920
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1920
 ctgagaattc attaaacttg tggttgctct tcacc 35

<210> 1921
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 1921
 Met Gln His His His His His Arg Cys His Ala His Gly Pro Ser
 1 5 10 15
 Cys Leu Val Thr Ala Ile Thr Arg Glu Glu Gly Gly Pro Arg Ser Gly
 20 25 30
 Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg

35 40 45
 Ser Thr Trp Asn Pro Asp Arg Arg Phe Trp Thr Pro Gln Thr Gly Pro
 50 55 60
 Gly Glu Gly Arg His Glu Arg His Thr Gln Thr Gln Asn His Thr Ala
 65 70 75 80
 Ser Pro Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys Asn Gln Gln
 85 90 95
 Leu Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln Lys Lys Ile Arg
 100 105 110
 Ile Gln Leu Arg Ser Gln Cys Ala Thr Trp Lys Val Ile Cys Lys Ser
 115 120 125
 Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu Asp Leu Gly Ser Gly Val
 130 135 140
 Lys Val Lys Ile Ile Pro Lys Glu Glu His Cys Lys Met Pro Glu Ala
 145 150 155 160
 Gly Glu Glu Gln Pro Gln Val
 165

<210> 1922
 <211> 507
 <212> DNA
 <213> Homo sapiens

<400> 1922
 atgcagcatc accaccatca ccaccggtgc cacgcccattg gaccttcttg tctcgtcacg 60
 gccataacta gggaggaagg agggccgagg agtgaggagg ctcaggcgaa gctgggggtgc 120
 tggtgggggt atccgagtcc cagaagcacc tggaaccccg acagaagatt ctggactccc 180
 cagacgggac caggagaggg acggcatgag cgacacacac aaacacagaa ccacacagcc 240
 agtcccagga gccagtaat ggagagcccc aaaaagaaga accagcagct gaaagtcggg 300
 atcctacacc tgggcagcag acagaagaag atcaggatac agctgagatc ccagtgcgcg 360
 acatggaagg tgatctgcaa gagctgcac agtcaaacac cggggataaa tctggatttg 420
 ggttcggcg tcaaggtgaa gataatacct aaagaggaac actgtaaaat gccagaagca 480
 ggtgaagagc aaccacaagt ttaatga 507

<210> 1923
 <211> 3192
 <212> DNA
 <213> Homo sapiens

<400> 1923
 cccacgcgtc cggcggtcgc cgcgggattt ggagctgcct agcctgcggg tcgctttggc 60
 agcatgtaag cagctgtttg ccaagaacct aggtcactgc taagaaaggg tgccttcggg 120
 agaagagtgt ccagaggata ccaatgccag atgcatctgg agttacactc agcactcgca 180
 gtatgagaca ttgtgtgcca gcatctcttt ccttctggca aagactgtag ctctccaggt 240
 aggaggatcc tggaagctgt gagcaccagg agccttgcca gaggaggatg gggccagata 300
 tgaactctct accatgaaca tggttctcgg cttatgaagg aattttaagt aaaacagtta 360
 ttttaatttc acatattcaa gtcaaaagcc ttctgtgtga agtgccagtg attaccctc 420
 cacaggagtt atcaggattt ttctggcacc aagttaatt cttcttcgta cttctggtag 480
 tgacagatct gcagggcaga tttatctgtt gaatgctctt gggcaggaaa accatgtaaa 540
 acctctggaa gcagcatcag gacagcagag cagagcccc gtctcactg ctcacttgca 600
 cagaaactcc atctggactc ggatgctttt actgaagacc catctagctt caatcatctt 660
 tagagtccat ccattctgga gagacctggc gtttgagtt gcctcctgtg gccgtgtttt 720
 tctgtcattc tgttcccagg cttctattc aggcggttga aggggtgtga ctttggaatg 780

gggtttgctg ttcttcggga acttgcttcc tttccctggc tgggtgctgc aggaaggacc 840
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 catgttcctg ttgctgcctt ttgatagcct gattgtcaac cttctgggca tctccctgac 960
 tgtctcttcc accctccttc tcgttttcat catagtgccca gccatttttg gagtctcctt 1020
 tggatccgc aaactctaca tgaaaagtct gttaaaaatc tttgcgtggg ctaccttgag 1080
 aatggagcga ggagccaagg agaagaacca ccagctttac aagccctaca ccaacggaat 1140
 cattgcaaag gatcccactt cactagaaga agagatcaaa gagattcgtc gaagtggtag 1200
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 ggagctctgg aacctgctga gcagaaccaa ttataacttc cagtacatca gccttcggct 1380
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 gccaaatggg aggtttaagg agttcatgag taaacatgtt cacttaatgt gttaccggat 1560
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 ggtggctaag agactgactg aacatgtgca agataaaagc aagctgccta tctcatctt 1860
 cccagaagga acctgcatca ataatacatc ggtgatgatg ttcaaaaagg gaagttttga 1920
 aattggagcc acagtgttacc ctgttgctat caagtatgac cctcaatttg gcgatgcctt 1980
 ctggaacagc agcaaatacg ggatgggtgac gtacctgctg cgaatgatga ccagctgggc 2040
 cattgtctgc agcgtgtggt acctgcctcc catgactaga gaggcagatg aagatgctgt 2100
 ccagtttgcg aatagggtga aatctgccat tgccaggcag ggaggacttg tggacctgct 2160
 gtgggatggg ggctgaaga gggagaagggt gaaggacacg ttcaaggagg agcagcagaa 2220
 gctgtacagc aagatgatcg tggggaacca caaggacagg agccgctcct gacctgcct 2280
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 aataagtcgt tggaggaatg ccattaaagt gaactcccca cttttgcacg ctgtgcgggc 2580
 tgagtgggtg gggagatgtg gccatggtct tgtgctagag atggcggtac aagagtctgt 2640
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 cagctgaggc actgtggctg gcttcggcct caacatcgcc cccagccttg gagctctgca 2760
 gacatgatag gaaggaaact gtcactctgca ggggctttca gcaaaatgaa gggttagatt 2820
 tttatgctgc tgctgatggg gttactaaag ggaggggaag aggccagggtg ggccgctgac 2880
 tgggccatgg ggagaacgtg tgttcgtact ccaggctaac cctgaactcc catgtgatg 2940
 cgcgctttgt tgaatgtgtg tctcggtttc cccatctgta atatgagtcg gggggaatgg 3000
 tgggtgattcc tacctcacag ggctgtgtg gggattaaag tgctgcgggt gagtgaagga 3060
 cacatcacgt tcagtgtttc aagtacaggc ccacaaaacg gggcacggca ggctgagct 3120
 cagagctgct gcactgggct ttggatttgt tcttgtgagt aaataaaaact ggctggtgaa 3180
 tgaaaaaaaa aa 3192

<210> 1924
 <211> 2048
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 787, 1453, 1521, 1727
 <223> n = A,T,C or G

<400> 1924
 gccggaagcg cgcggagacc atgtagtgag accctcgcga ggtctgagag tcaactggagc 60

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ggtagcttca gagcctccag tgccctgtggg gctggaggtg aagttggggg ccttgggtgct 180
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<210> 1925
<211> 456
<212> PRT
<213> Homo sapiens

<400> 1925
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1 5 10 15
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20 25 30
Pro Ala Ile Phe Gly Val Ser Phe Gly Ile Arg Lys Leu Tyr Met Lys
35 40 45
Ser Leu Leu Lys Ile Phe Ala Trp Ala Thr Leu Arg Met Glu Arg Gly
50 55 60
Ala Lys Glu Lys Asn His Gln Leu Tyr Lys Pro Tyr Thr Asn Gly Ile
65 70 75 80
Ile Ala Lys Asp Pro Thr Ser Leu Glu Glu Glu Ile Lys Glu Ile Arg
85 90 95
Arg Ser Gly Ser Ser Lys Ala Leu Asp Asn Thr Pro Glu Phe Glu Leu

1 5 10 15
 Val Ala Ser Glu Pro Pro Val Pro Val Gly Leu Glu Val Lys Leu Gly
 20 25 30
 Ala Leu Val Leu Leu Val Leu Thr Leu Leu Cys Ser Leu Gly Ser
 35 40 45
 Ile Gly Val Leu Arg Arg Thr Gly Ala Asn His Glu Gly Ser Ala Ser
 50 55 60
 Arg Gln Lys Ala Leu Ser Leu Val Ser Cys Phe Ala Gly Gly Val Phe
 65 70 75 80
 Leu Ala Thr Cys Leu Leu Asp Leu Leu Pro Asp Tyr Leu Ala Ala Ile
 85 90 95
 Asp Glu Ala Leu Ala Ala Leu His Val Thr Leu Gln Phe Pro Leu Gln
 100 105 110
 Glu Phe Ile Leu Ala Met Gly Phe Phe Leu Val Leu Val Met Glu Gln
 115 120 125
 Ile Thr Leu Ala Tyr Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu
 130 135 140
 Thr Arg Ala Leu Leu Gly Thr Val Asn Gly Gly Pro Gln His Trp His
 145 150 155 160
 Asp Gly Pro Gly Val Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser
 165 170 175
 Ala Leu Arg Ala Cys Val Leu Val Phe Ser Leu Ala Leu His Ser Val
 180 185 190
 Phe Glu Gly Leu Ala Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met
 195 200 205
 Glu Leu Cys Leu Ala Leu Leu Leu His Lys Gly Ile Leu Ala Val Ser
 210 215 220
 Leu Ser Leu Arg Leu Leu Gln Ser His Leu Arg Ala Gln Val Val Ala
 225 230 235 240
 Gly Cys Gly Ile Leu Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu
 245 250 255
 Gly Ala Ala Leu Ala Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln
 260 265 270
 Ser Val Leu Glu Gly Met Ala Ala Gly Thr Phe Leu Tyr Ile Thr Phe
 275 280 285
 Leu Glu Ile Leu Pro Gln Glu Leu Ala Ser Ser Glu Gln Arg Ile Leu
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 305 310 315 320
 Phe Ile Gln Ile

<210> 1927
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 1927
 Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp
 1 5 10 15

<210> 1928

<211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1928
 Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu
 1 5 10 15
 Asp Leu Gly Ser
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<210> 1929
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1929
 Ile Ile Pro Lys Glu Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu
 1 5 10 15
 Gln Pro Gln Val
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<210> 1930
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 1930
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 Trp Phe Gly Val Asn Pro Gly Met
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<210> 1931
 <211> 1526
 <212> DNA
 <213> Homo sapiens

<400> 1931
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 ggaggcatta atgaaactgg agagacttga ttctgttcca gttgaagagc aagaagagtt 360
 caagcagctt tcagatggaa ttcaggagct acaacaatca ctaaatcagg attttcatca 420
 aaaaacgata gtgctgcaag agggaaattc ccaaaagaag tcaaatattt cagagaaaac 480
 caagcgtttg aatgaactaa aattgttggt ggtttctttg aaagaaatac aagagagttt 540
 gaaaacaaaa attgtggatt ctccagagaa gttaaagaat tataaagaaa aaatgaaaga 600
 tacggtccag aagcttaaaa atgccagaca agaagtgggt gagaaatatg aaatctatgg 660
 agactcagtt gactgcctgc cttcatgtca gttggaagtg cagttatatc aaaagaaaat 720
 acaggacctt tcagataata gggaaaaatt agccagtatc ttaaaggaga gcctgaactt 780

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ggaggaccaa attgagagtg atgagtcaga actgaagaaa ttgaagactg aagaaaaattc 840
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<210> 1932

<211> 404

<212> PRT

<213> Homo sapiens

<400> 1932

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Asp Ser Phe Leu Pro Ile Cys Arg Val Asn Asp Phe Glu Thr Ala Asp
35          40          45
Ile Leu Cys Pro Lys Ala Lys Arg Thr Ser Arg Phe Leu Ser Gly Ile
50          55          60
Ile Asn Phe Ile His Phe Arg Glu Ala Cys Arg Glu Thr Tyr Met Glu
65          70          75          80
Phe Leu Trp Gln Tyr Lys Ser Ser Ala Asp Lys Met Gln Gln Leu Asn
85          90          95
Ala Ala His Gln Glu Ala Leu Met Lys Leu Glu Arg Leu Asp Ser Val
100          105          110
Pro Val Glu Glu Gln Glu Glu Phe Lys Gln Leu Ser Asp Gly Ile Gln
115          120          125
Glu Leu Gln Gln Ser Leu Asn Gln Asp Phe His Gln Lys Thr Ile Val
130          135          140
Leu Gln Glu Gly Asn Ser Gln Lys Lys Ser Asn Ile Ser Glu Lys Thr
145          150          155          160
Lys Arg Leu Asn Glu Leu Lys Leu Leu Val Val Ser Leu Lys Glu Ile
165          170          175
Gln Glu Ser Leu Lys Thr Lys Ile Val Asp Ser Pro Glu Lys Leu Lys
180          185          190
Asn Tyr Lys Glu Lys Met Lys Asp Thr Val Gln Lys Leu Lys Asn Ala
195          200          205
Arg Gln Glu Val Val Glu Lys Tyr Glu Ile Tyr Gly Asp Ser Val Asp
210          215          220
Cys Leu Pro Ser Cys Gln Leu Glu Val Gln Leu Tyr Gln Lys Lys Ile
225          230          235          240
Gln Asp Leu Ser Asp Asn Arg Glu Lys Leu Ala Ser Ile Leu Lys Glu
245          250          255
Ser Leu Asn Leu Glu Asp Gln Ile Glu Ser Asp Glu Ser Glu Leu Lys
260          265          270

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Ala Thr Ala Gln Phe Lys Ile Asn Lys Lys His Glu Asp Val Lys Gln
 355 360 365
 Tyr Lys Arg Thr Val Ile Glu Asp Cys Asn Lys Val Gln Glu Lys Arg
 370 375 380
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 385 390 395 400
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 405 410 415
 Leu Lys Ser Gln Glu Ile Phe Leu Asn Leu Lys Thr Ala Leu Glu Lys
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 Tyr His Asp Gly Ile Glu Lys Ala Ala Glu Asp Ser Tyr Ala Lys Ile
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<210> 1935
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1935
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26

<210> 1936
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1936
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32

<210> 1937
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1937
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 Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro Asp Arg Arg
 35 40 45
 Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg His Glu Arg His
 50 55 60
 Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met Glu
 65 70 75 80

Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His Leu
 85 90 95
 Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln Cys Ala
 100 105 110
 Thr Trp Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly Ile
 115 120 125
 Asn Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile Ile Pro Lys Glu
 130 135 140
 Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu Gln Pro Gln Val
 145 150 155

<210> 1938
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 1938
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 cggcatgagc gacacacaca aacacagaac cacacagcca gtcccaggag cccagtaatg 240
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 cagaagaaga tcaggataca gctgagatcc cagtgcgcga catggaaggt gatctgcaag 360
 agctgcatca gtcaaacacc ggggataaat ctggatttgg gttccggcgt caaggtgaag 420
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<210> 1939
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1939
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<210> 1940
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 1940
 Met Arg Cys His Ala His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr
 1 5 10 15
 Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly
 20 25 30
 Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro Asp Arg
 35 40 45
 Arg Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg His Glu Arg
 50 55 60
 His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met

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Leu	Gly	Ser	Arg	Gln	Lys	Lys	Ile	Arg	Ile	Gln	Leu	Arg	Ser	Gln	Cys
			100					105					110		
Ala	Thr	Trp	Lys	Val	Ile	Cys	Lys	Ser	Cys	Ile	Ser	Gln	Thr	Pro	Gly
		115					120					125			
Ile	Asn	Leu	Asp	Leu	Gly	Ser	Gly	Val	Lys	Val	Lys	Ile	Ile	Pro	Lys
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145					150					155					160

<210> 1941
 <211> 486
 <212> DNA
 <213> Homo sapiens

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 cagaagaaga tcaggatata gctgagatcc cagtgcgcga catggaaggt gatctgcaag 360
 agctgcatca gtcaaacacc ggggataaat ctggatttgg gttccggcgt caaggtgaag 420
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 taatga 486

<210> 1942
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 1942
 Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Asp
 1 5 10 15
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<210> 1943
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1943
 Cys Ser Leu Gly Val Phe Pro Ser Ala Pro Ser Pro Val Trp Gly Thr
 1 5 10 15
 Arg Arg Ser Cys
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<210> 1944

<211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1944
 Ile Leu Ser Pro Leu Leu Arg His Gly Gly His Thr Gln Thr Gln Asn
 1 5 10 15
 His Thr Ala Ser
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<210> 1945
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1945
 Met Arg Cys His Ala His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr
 1 5 10 15
 Arg Glu Glu Gly
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<210> 1946
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1946
 His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr Arg Glu Glu Gly Gly
 1 5 10 15
 Pro Arg Ser Gly
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<210> 1947
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1947
 Leu Val Thr Ala Ile Thr Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly
 1 5 10 15
 Ala Gln Ala Lys
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<210> 1948
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1948
 Thr Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu

1 5 10 15
 Gly Cys Cys Trp
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<210> 1949
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1949
 Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp Gly
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 Tyr Pro Ser Pro
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<210> 1950
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1950
 Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg
 1 5 10 15
 Ser Thr Trp Asn
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<210> 1951
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1951
 Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro
 1 5 10 15
 Asp Arg Arg Phe
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<210> 1952
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1952
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 Thr Pro Gln Thr
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<210> 1953

<211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1953
 Arg Ser Thr Trp Asn Pro Asp Arg Arg Phe Trp Thr Pro Gln Thr Gly
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 Pro Gly Glu Gly
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<210> 1954
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1954
 Pro Asp Arg Arg Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg
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 His Glu Arg His
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<210> 1955
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1955
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 Gln Thr Gln Asn
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<210> 1956
 <211> 20
 <212> PRT
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<400> 1956
 Gly Pro Gly Glu Gly Arg His Glu Arg His Thr Gln Thr Gln Asn His
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 Thr Ala Ser Pro
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<210> 1957
 <211> 20
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<400> 1957
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1 5 10 15
 Ser Pro Val Met
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<210> 1958
 <211> 20
 <212> PRT
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<400> 1958
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 Ser Pro Lys Lys
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<210> 1959
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 <212> PRT
 <213> Homo sapiens

<400> 1959
 His Thr Ala Ser Pro Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys
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 Asn Gln Gln Leu
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<210> 1960
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1960
 Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys
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 Val Gly Ile Leu
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<210> 1961
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1961
 Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His
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 Leu Gly Ser Arg
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<210> 1962

<211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1962
 Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln
 1 5 10 15
 Lys Lys Ile Arg
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<210> 1963
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1963
 Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile
 1 5 10 15
 Gln Leu Arg Ser
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<210> 1964
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1964
 His Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln
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 Cys Ala Thr Trp
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<210> 1965
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 <212> PRT
 <213> Homo sapiens

<400> 1965
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<210> 1966
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1966
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1 5 10 15
 Cys Ile Ser Gln
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<210> 1967
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 1967
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 1 5 10 15
 Thr Pro Gly Ile Asn
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<210> 1968
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1968
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 1 5 10 15
 Asp Leu Gly Ser
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<210> 1969
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1969
 Ser Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu Asp Leu Gly Ser Gly
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 Val Lys Val Lys
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<210> 1970
 <211> 20
 <212> PRT
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<400> 1970
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 Ile Pro Lys Glu
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<210> 1971

<211> 20
 <212> PRT
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<400> 1971
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 His Cys Lys Met
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<210> 1972
 <211> 20
 <212> PRT
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<400> 1972
 Gly Val Lys Val Lys Ile Ile Pro Lys Glu Glu His Cys Lys Met Pro
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<210> 1973
 <211> 20
 <212> PRT
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<400> 1973
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 Gln Pro Gln Val
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<210> 1974
 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 1974
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<210> 1975
 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 1975
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<210> 1976

<210> 1988

<211> 60
<212> DNA
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<400> 1988
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<210> 1989
<211> 60
<212> DNA
<213> Homo sapiens

<400> 1989
aggagcccag taatggagag ccccaaaaag aagaaccagc agctgaaagt cgggataccta 60

<210> 1990
<211> 60
<212> DNA
<213> Homo sapiens

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